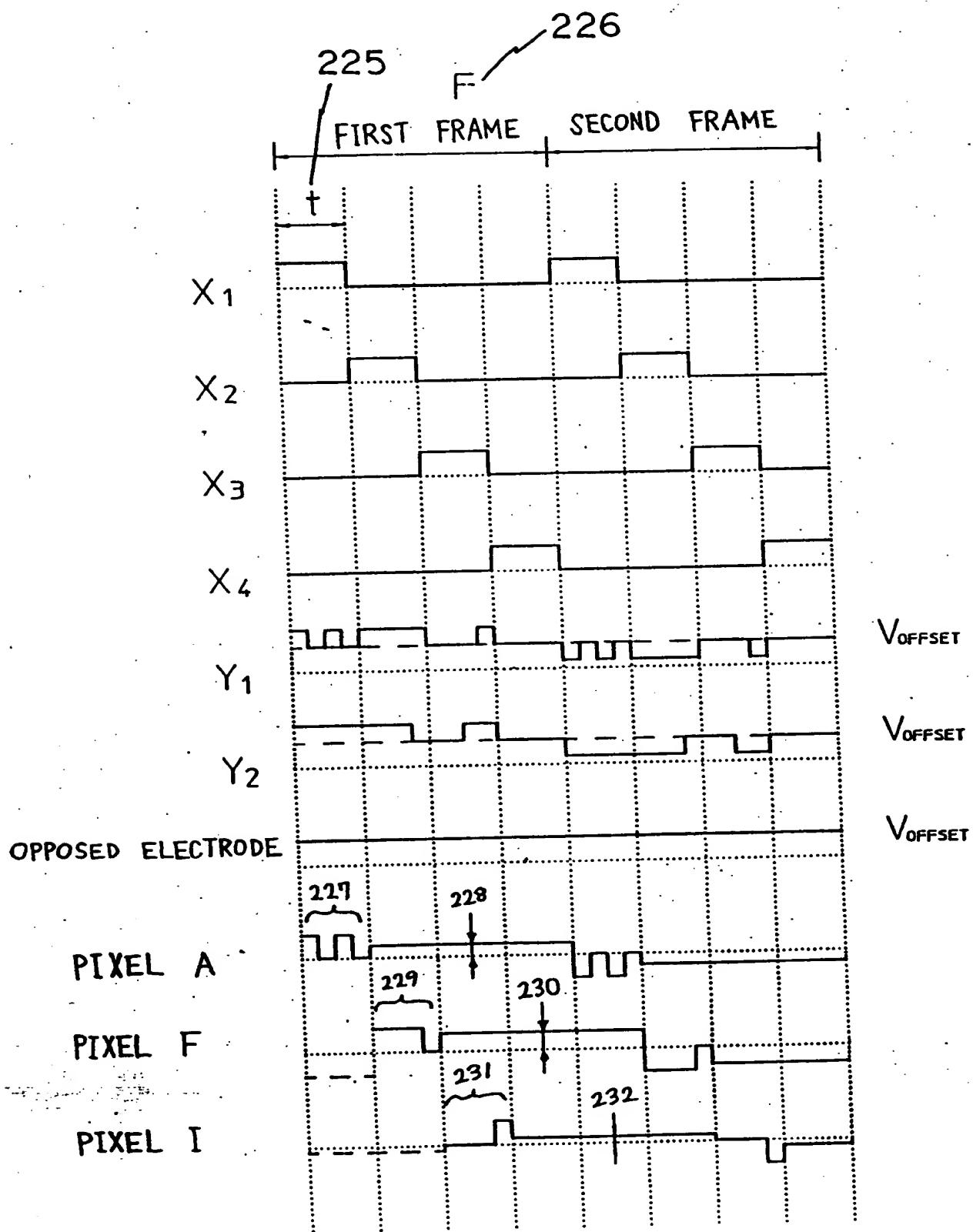


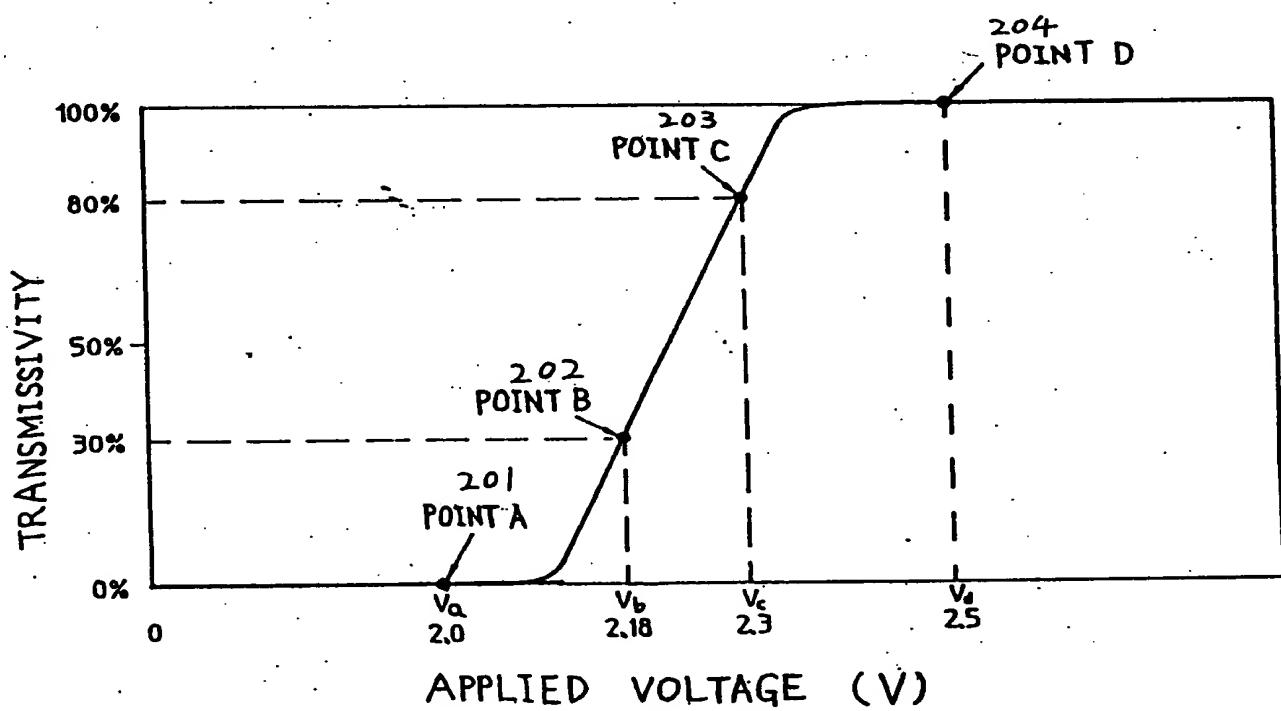
372899

Fig. 1



372899

Fig. 2



372899

Fig. 3

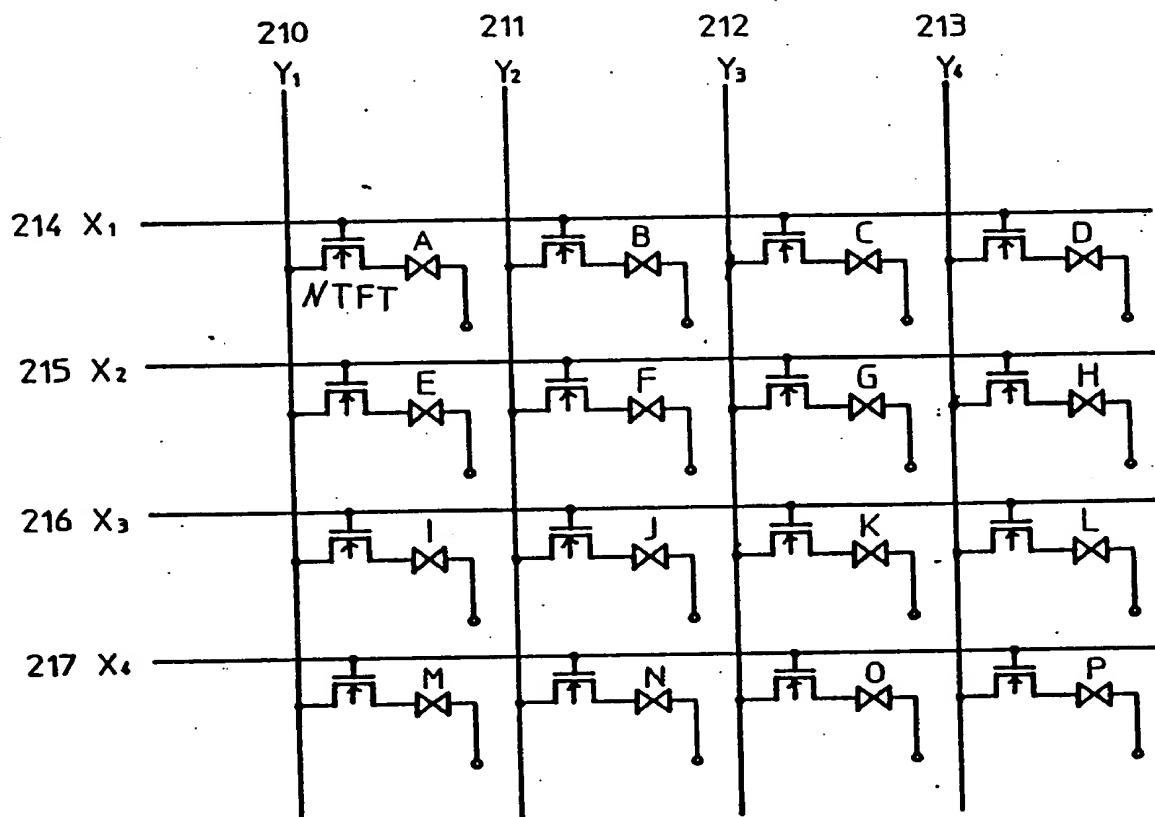


Fig. 4

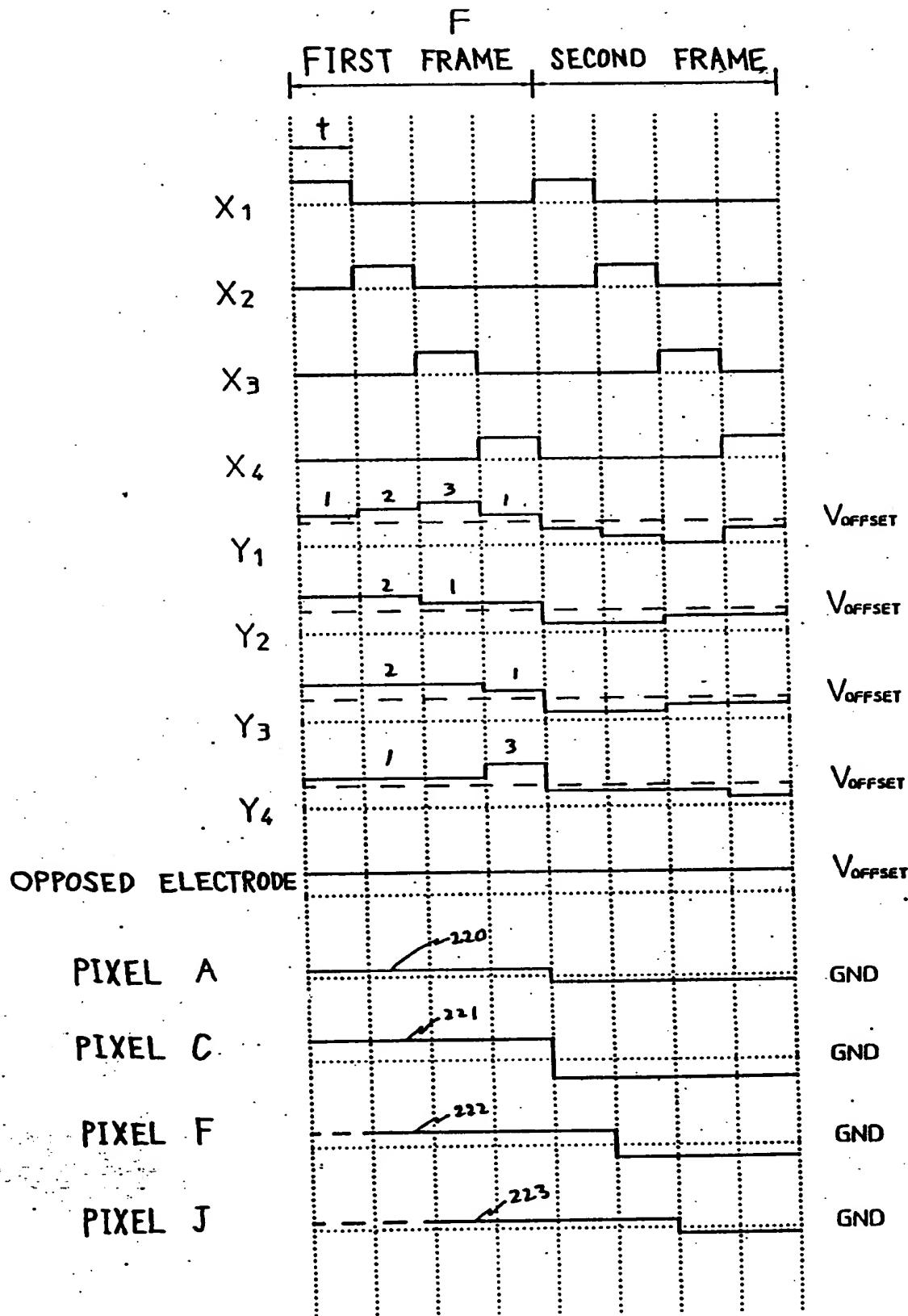


Fig. 5

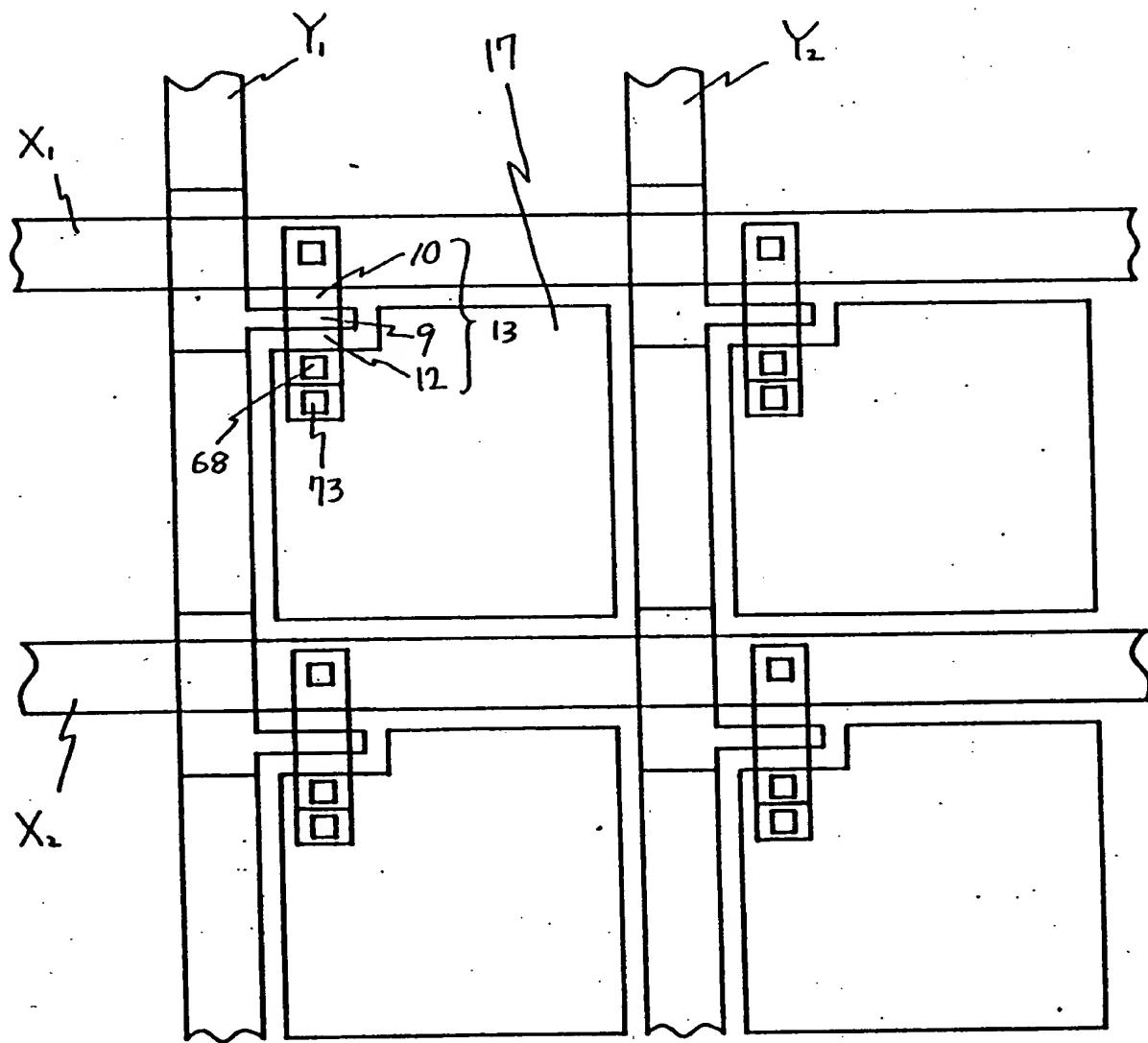


Fig. 6

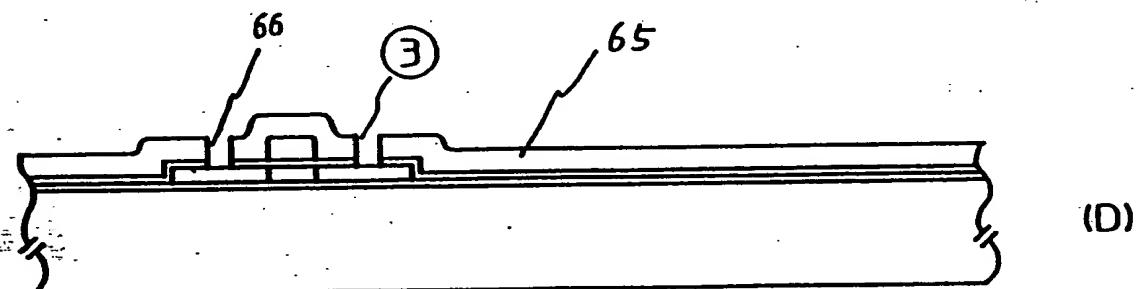
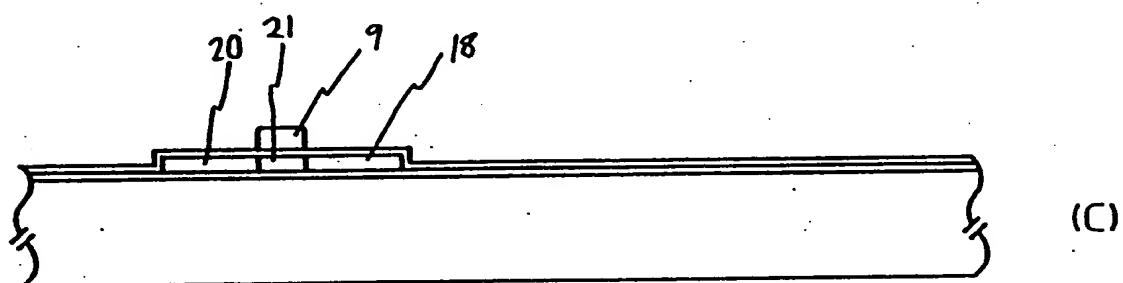
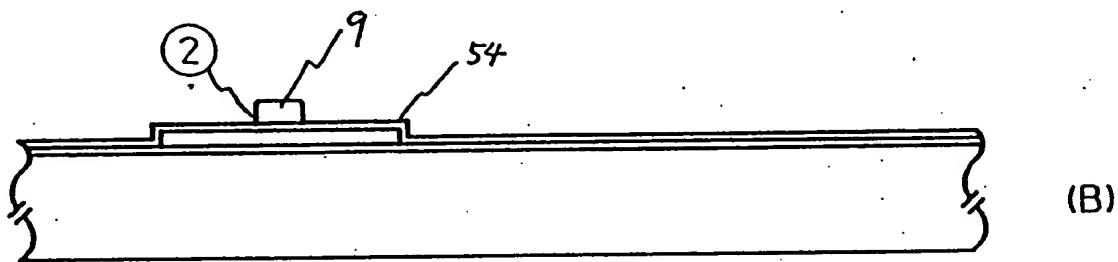
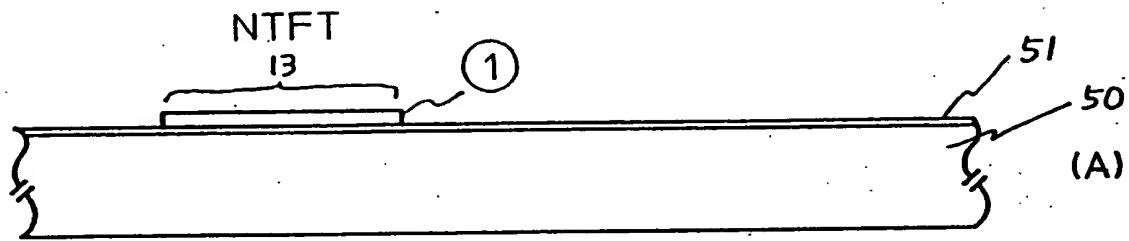


Fig. 6

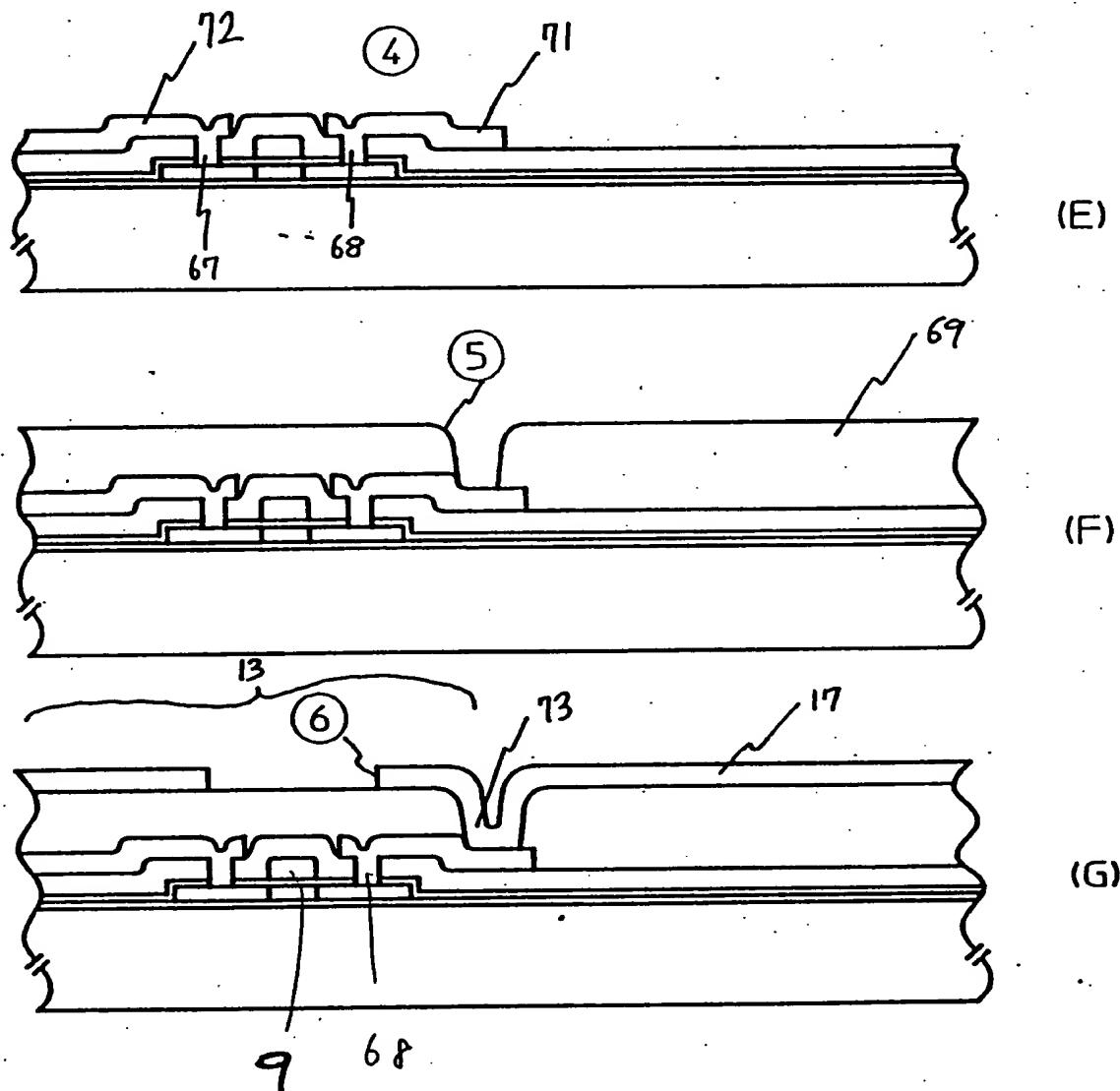
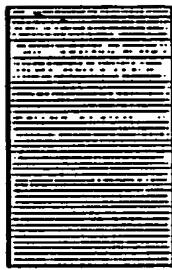
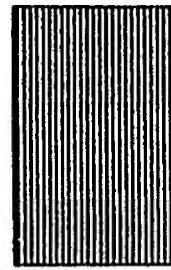


Fig. 7

PIXEL A



PIXEL F



PIXEL I

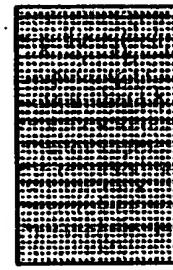


Fig. 8

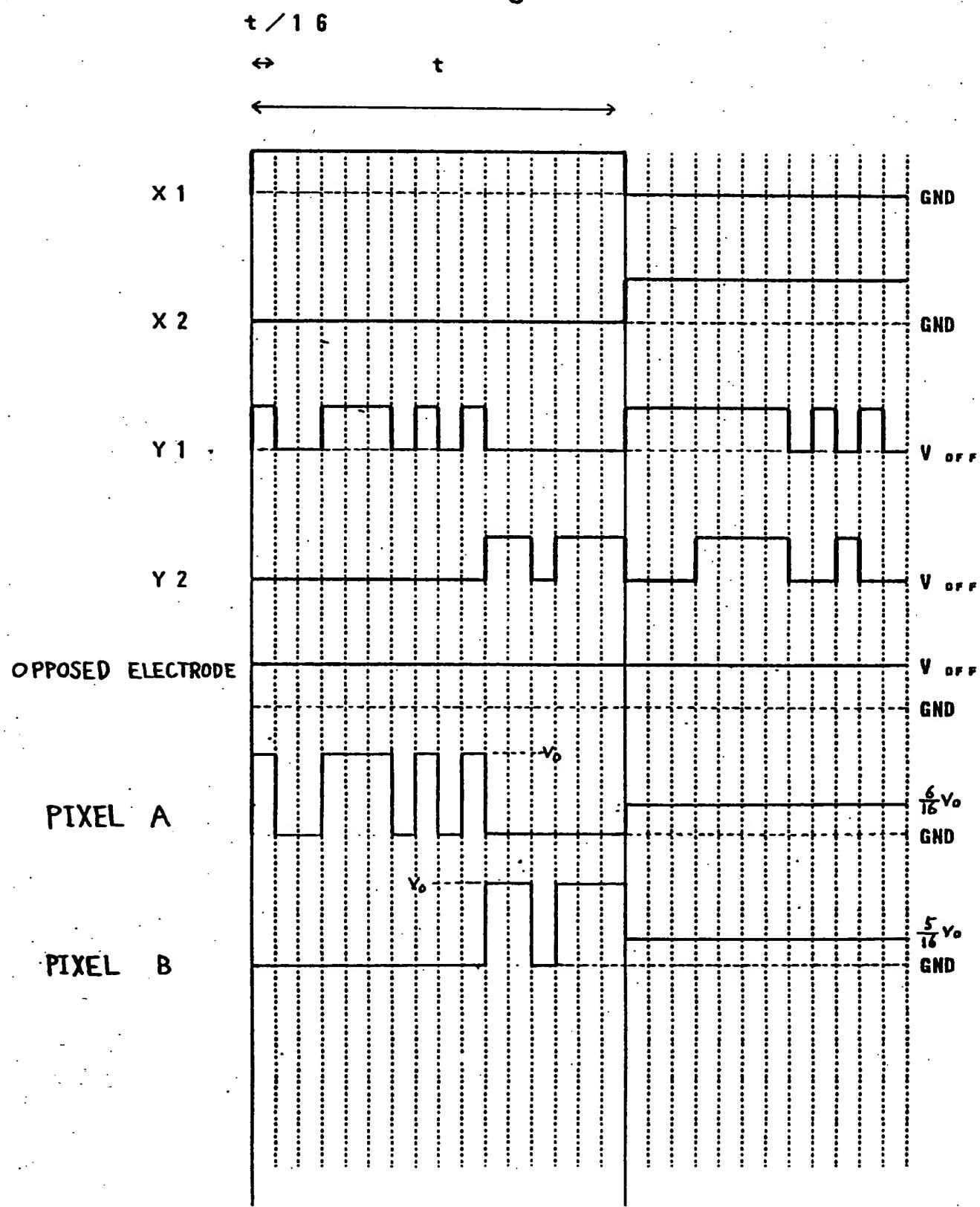


Fig. 9

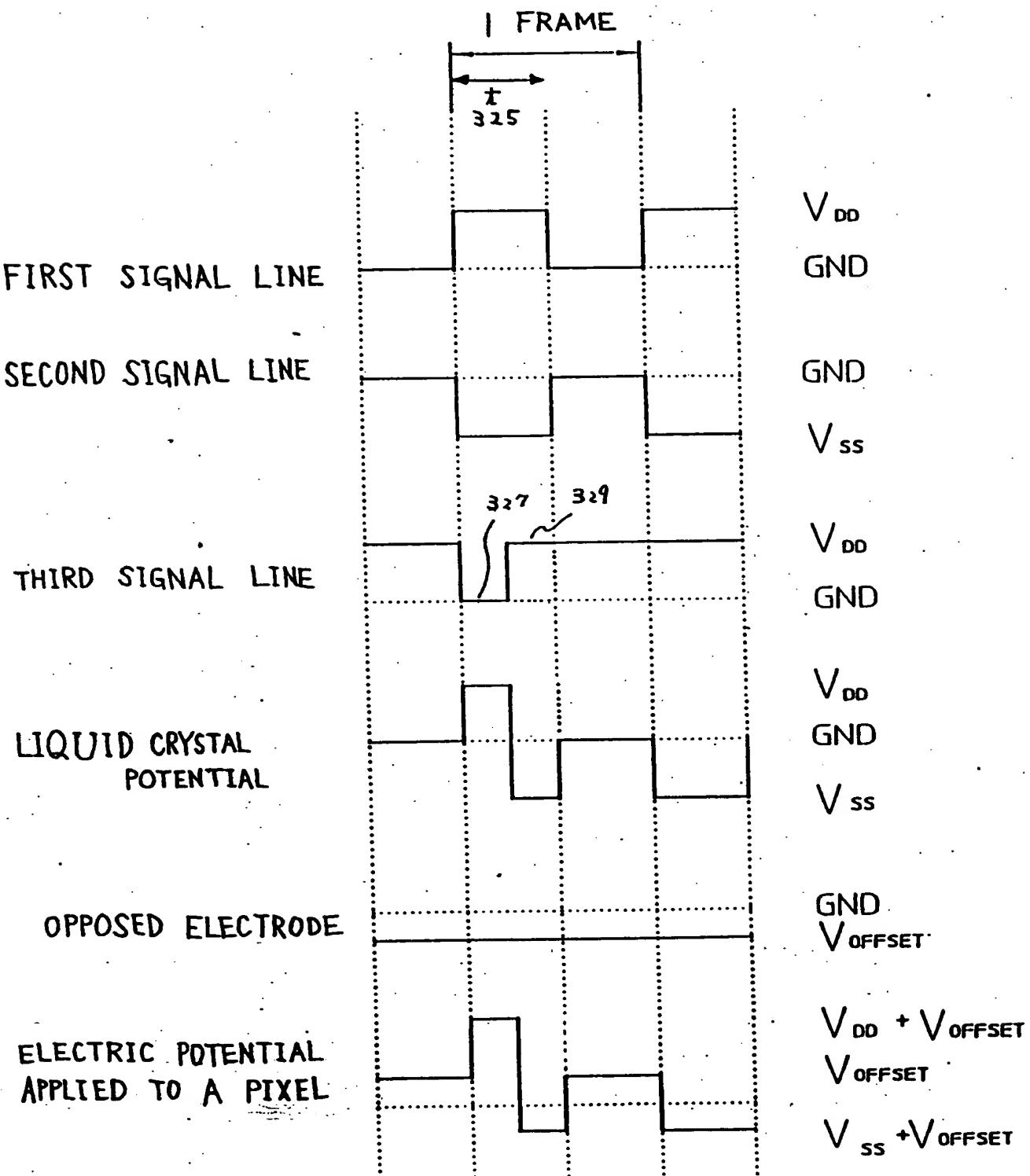


Fig. 10

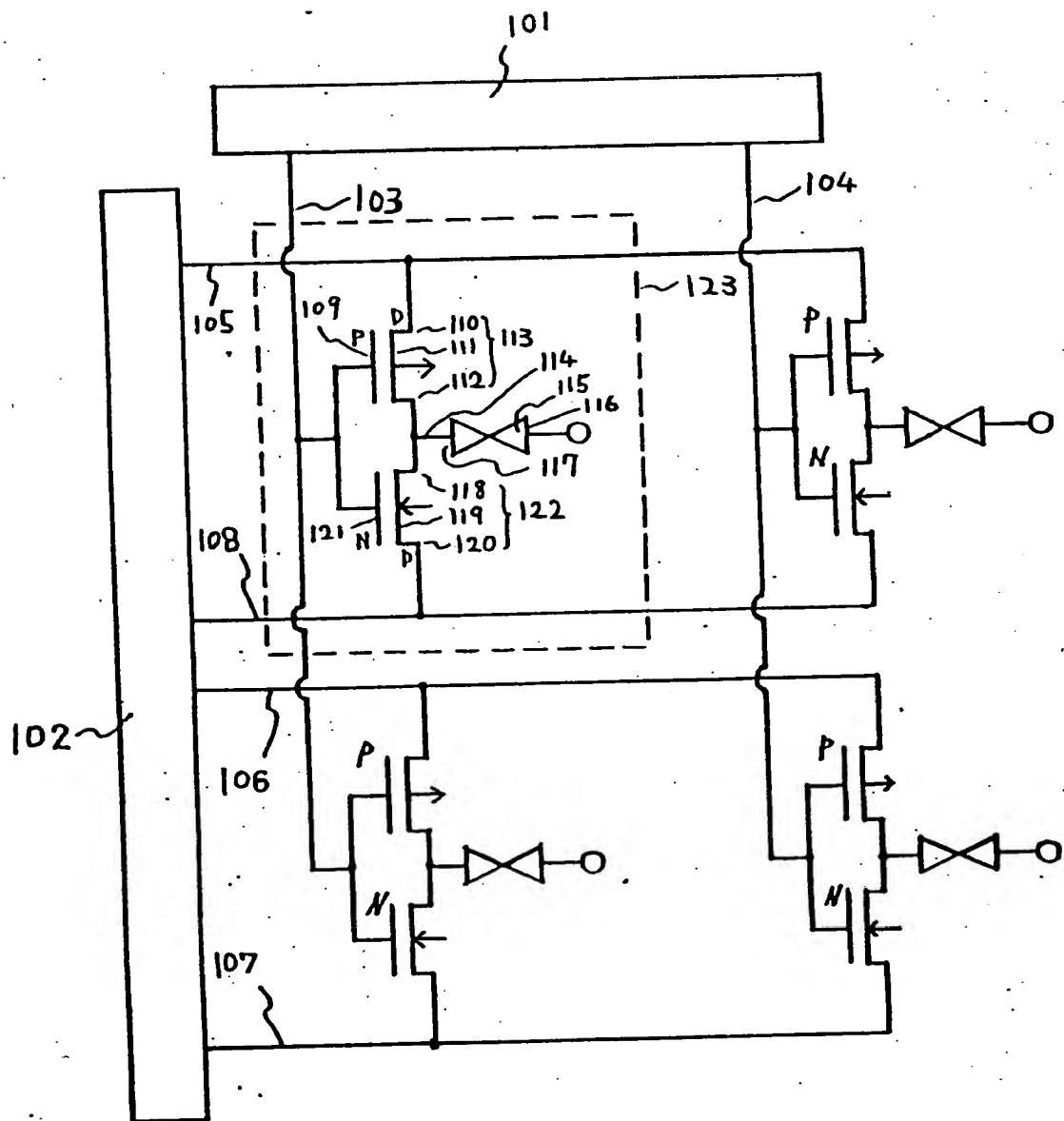


Fig. 11

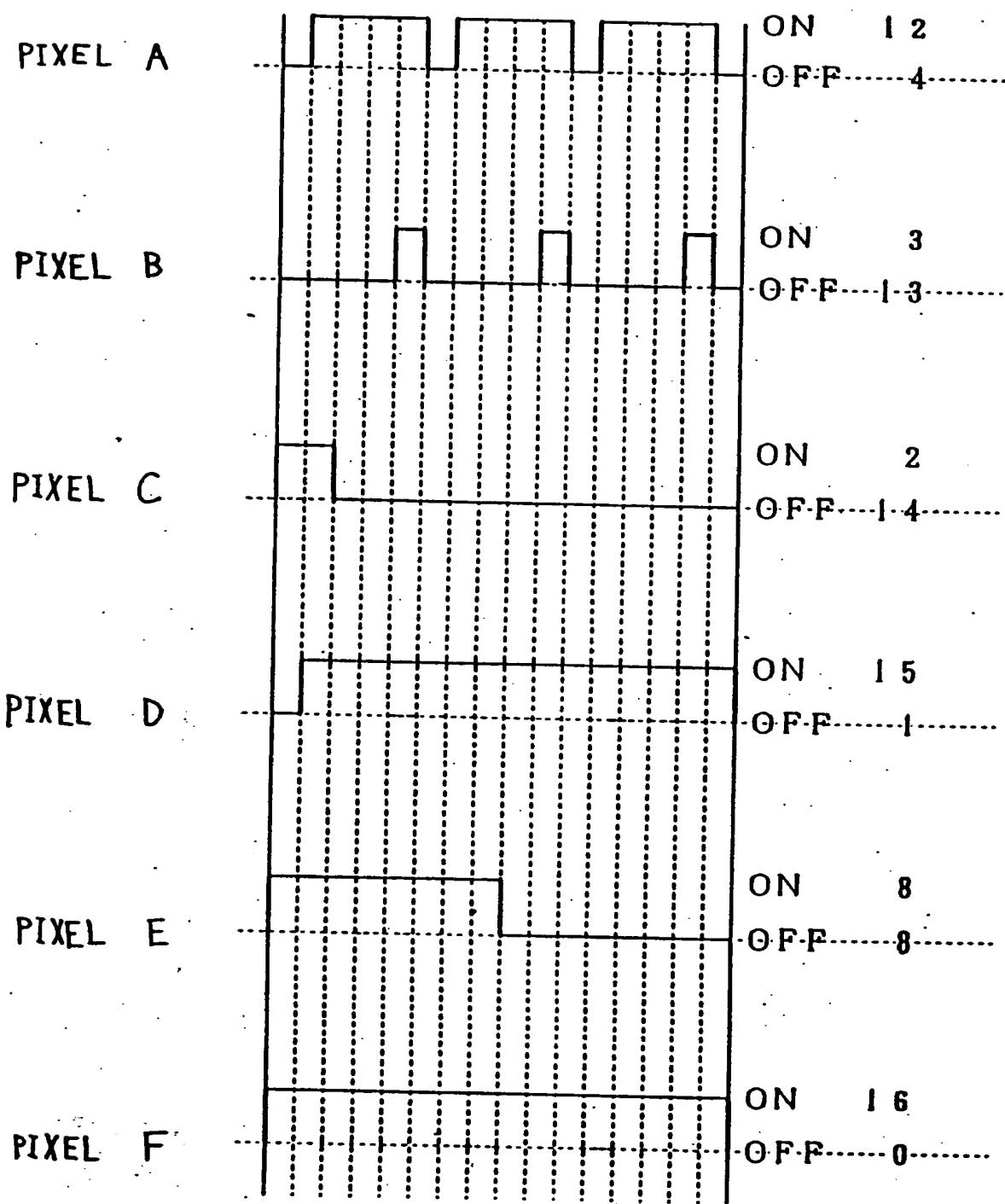


Fig. 12

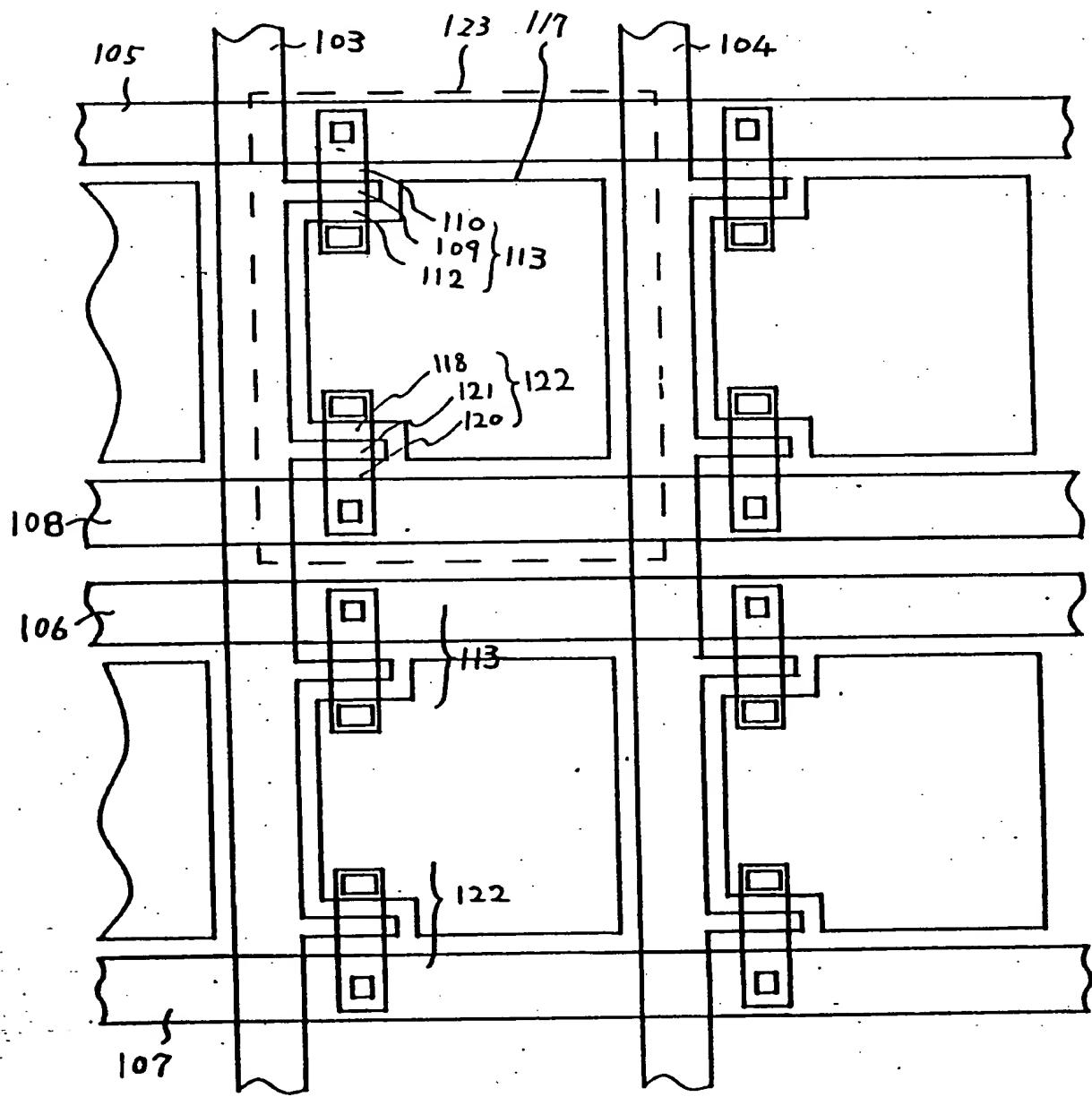


Fig. 13

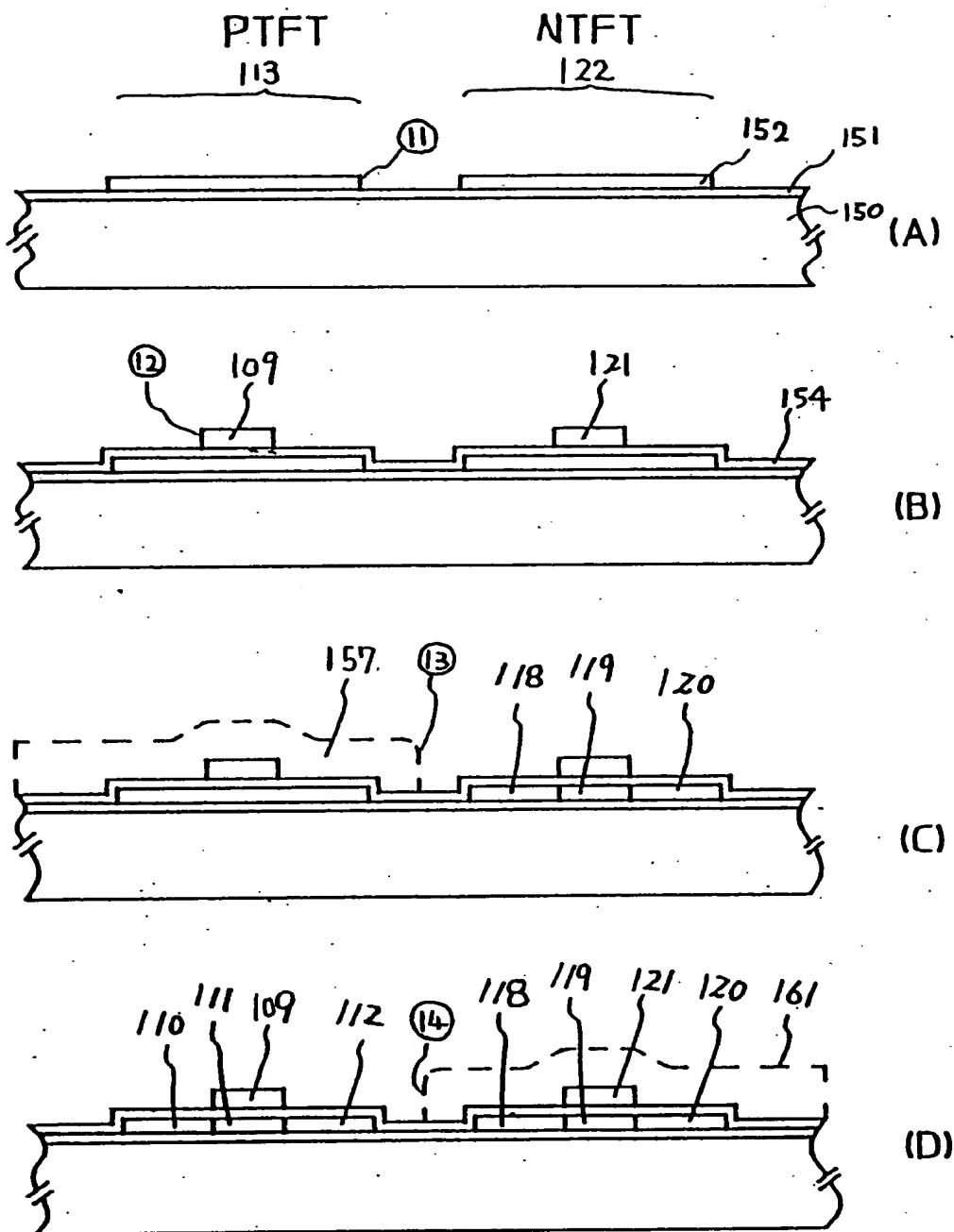


Fig. 13

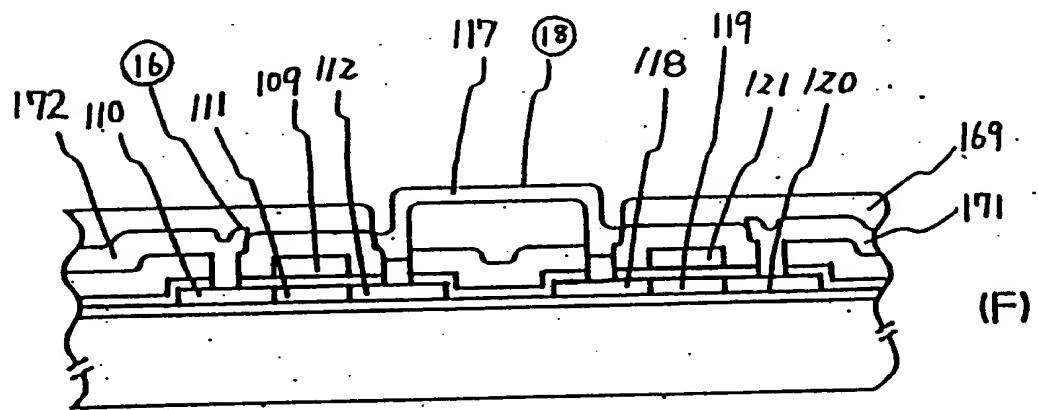
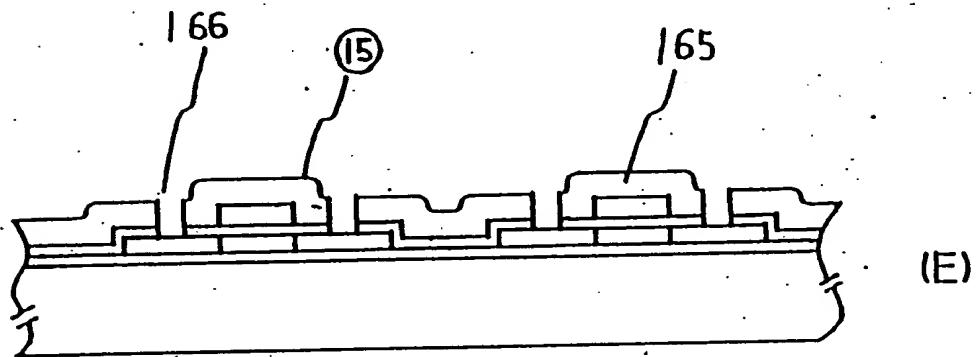
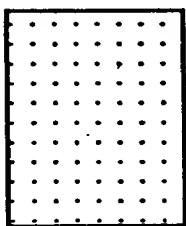
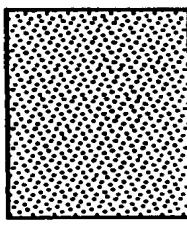


Fig. 14

PIXEL A



PIXEL E



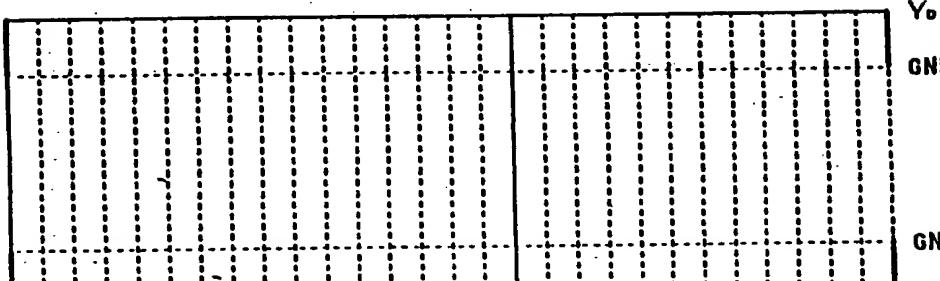
PIXEL C



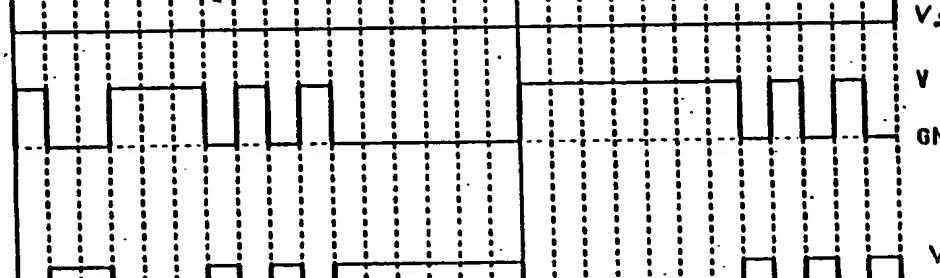
Fig. 15

$t / 16$
 $\leftrightarrow 227$ $t / 225$
 ← →

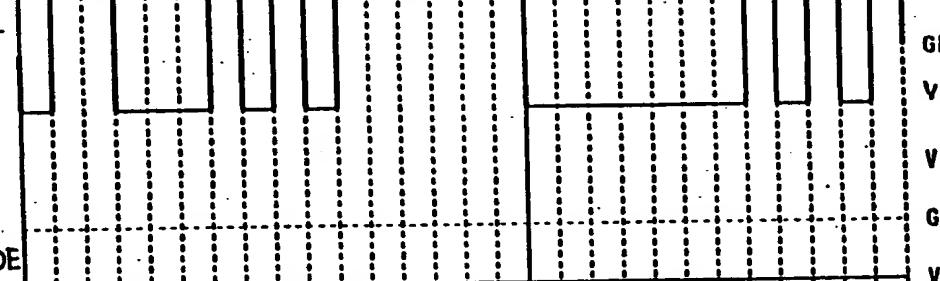
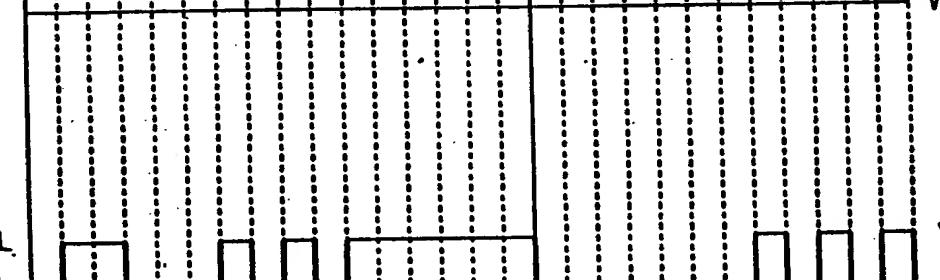
FIRST SIGNAL LINE

V_{DP}
GNDGND
V_{SS}V_{DD}
GNDV_{DP}
GND
V_{SS}
V_{OFF}
GND
V_{OFF}V_{DP} + V_{OFF}
V_{SS} + V_{OFF}

SECOND SIGNAL LINE



THIRD SIGNAL LINE

LIQUID CRYSTAL
POTENTIAL

OPPOSED ELECTRODE

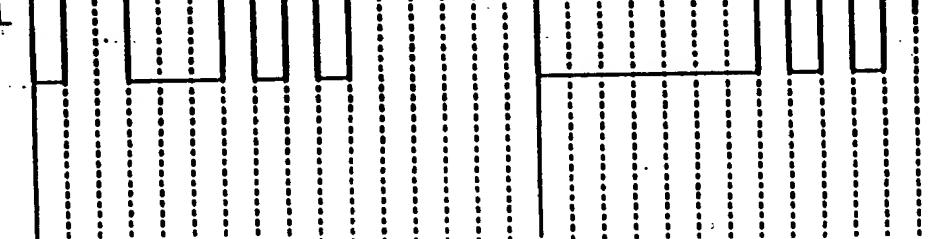
ELECTRIC POTENTIAL
APPLIED TO A PIXEL

Fig. 16

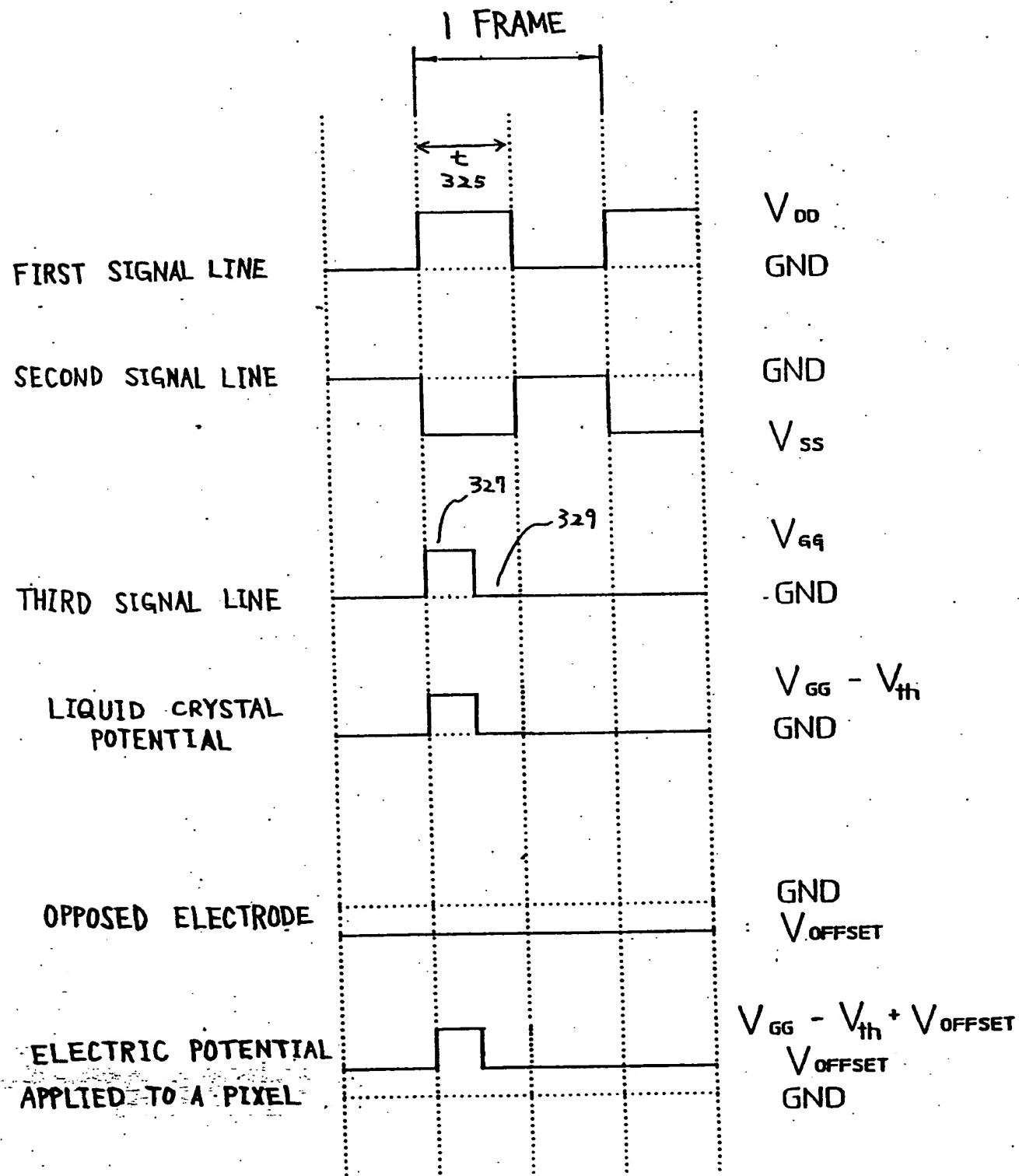


Fig. 17

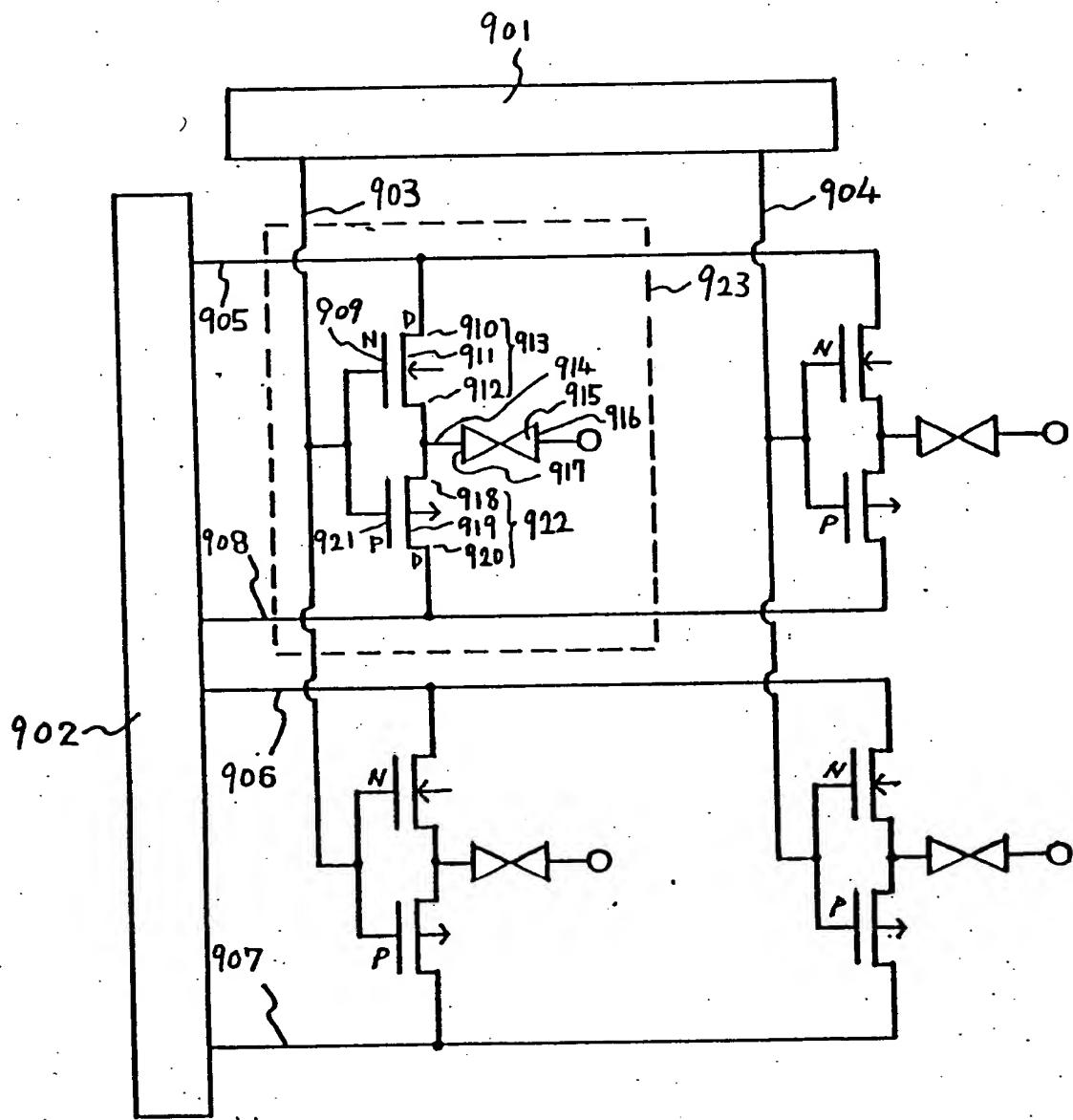


Fig. 18

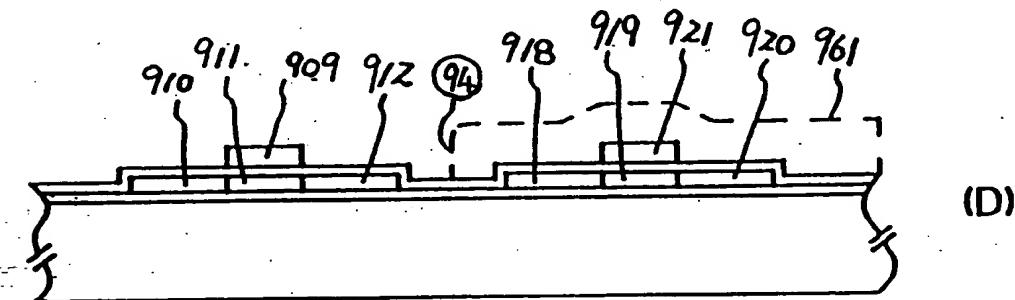
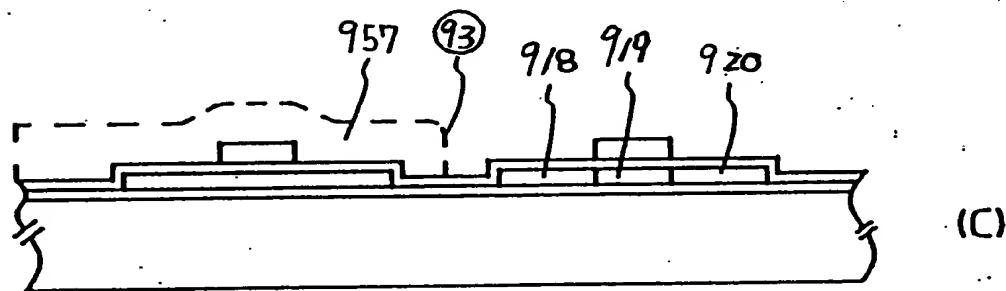
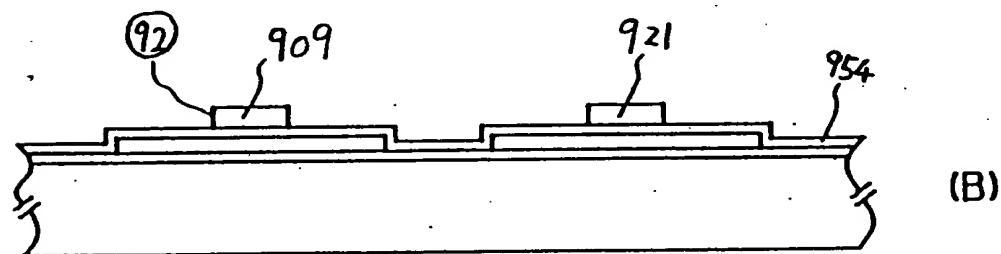
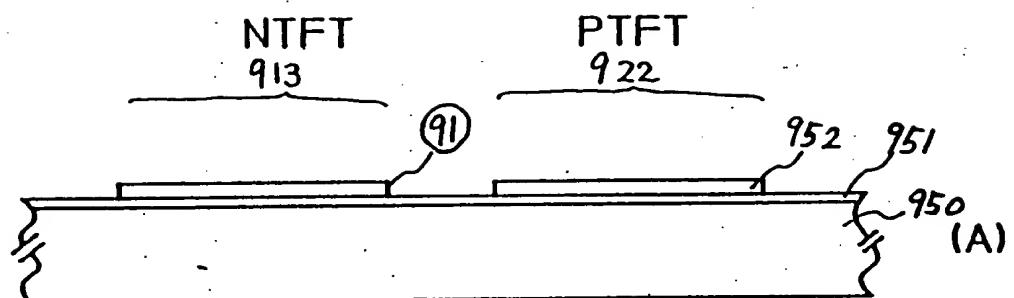


Fig. 18

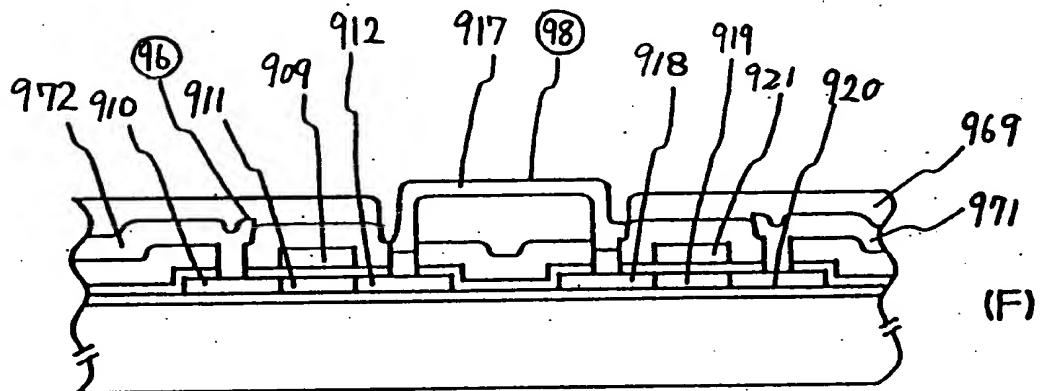
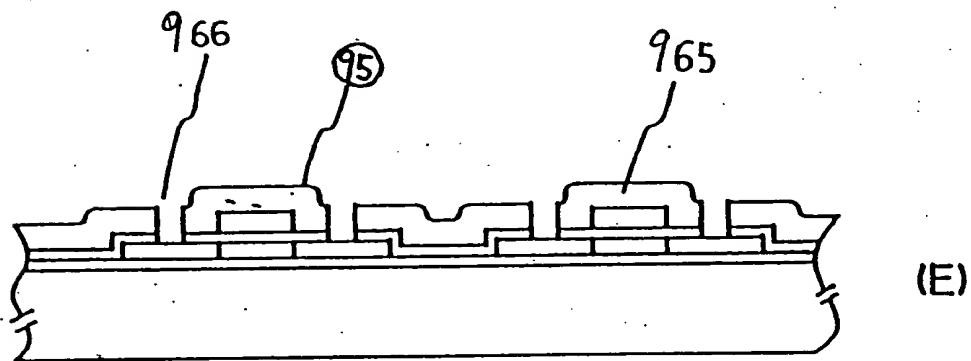


Fig. 19

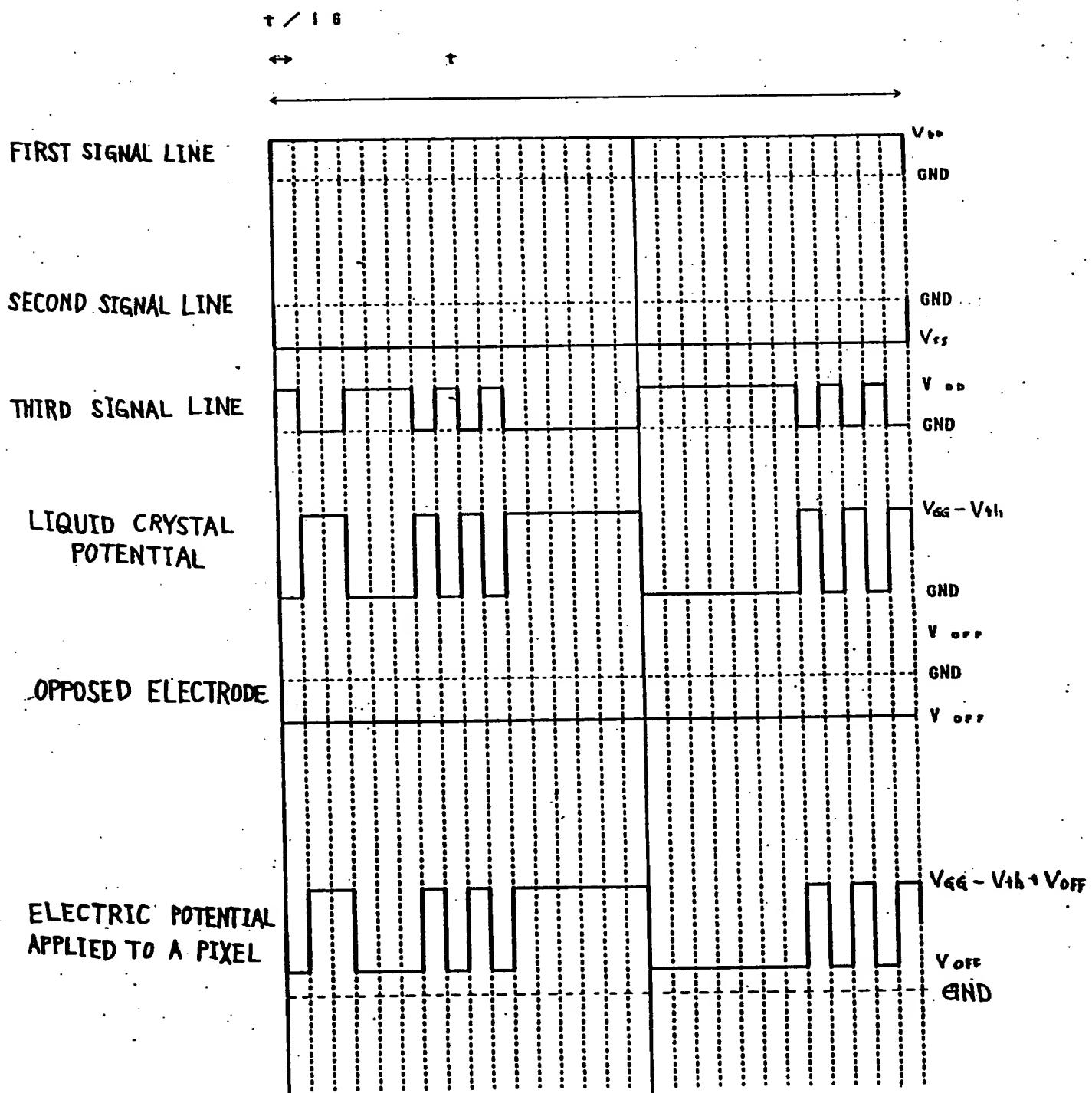


Fig. 20

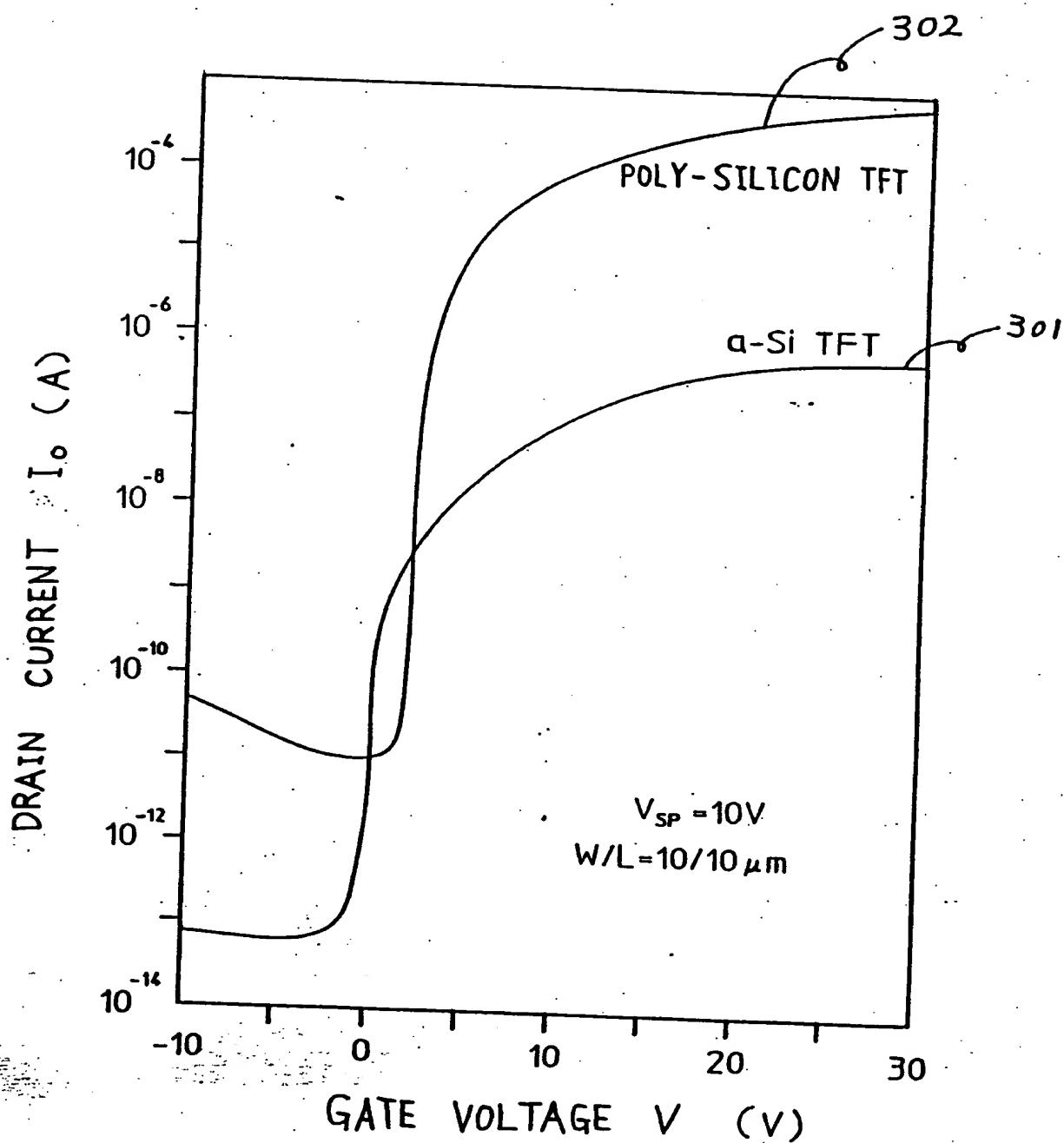


Fig. 21

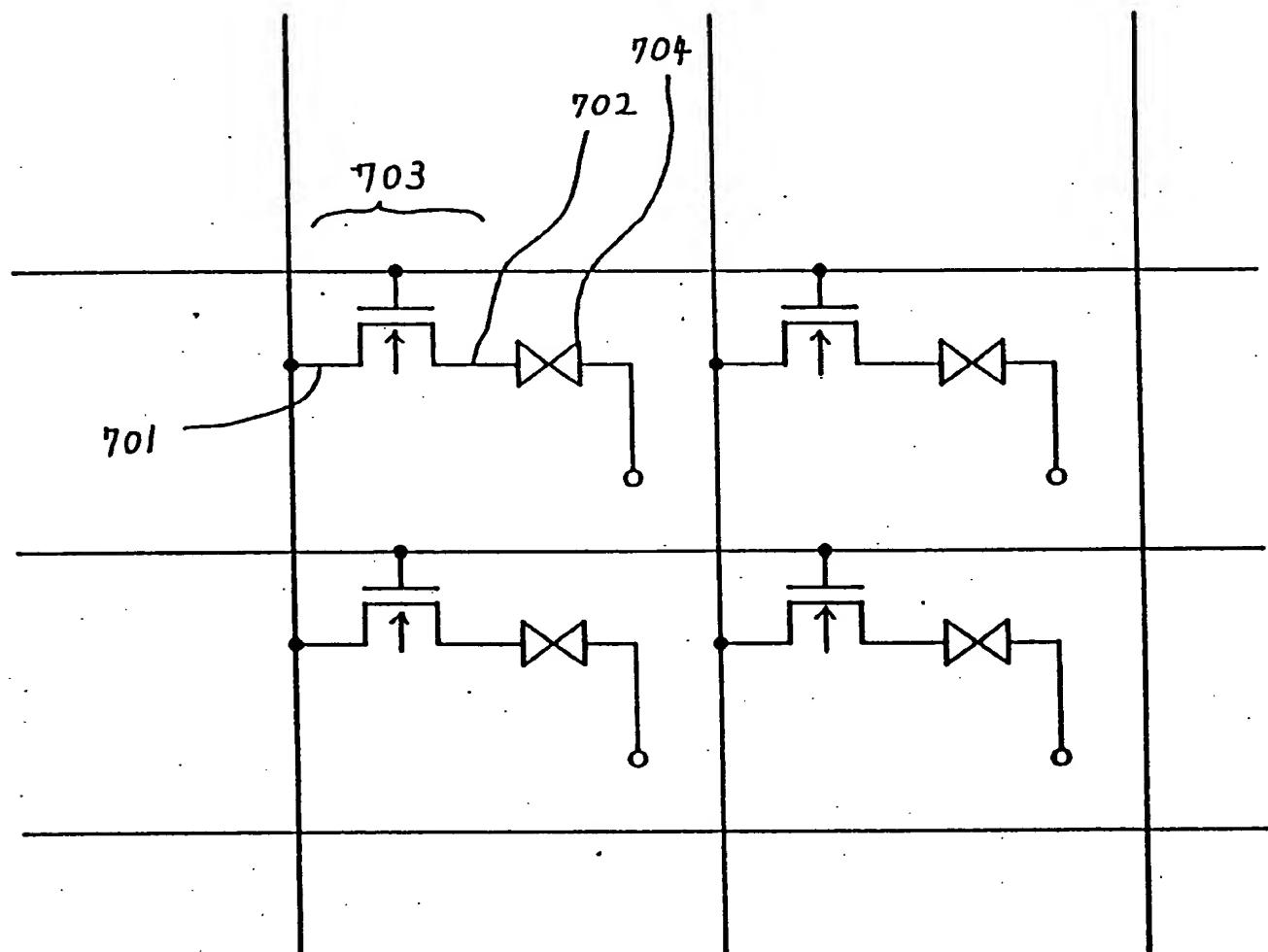
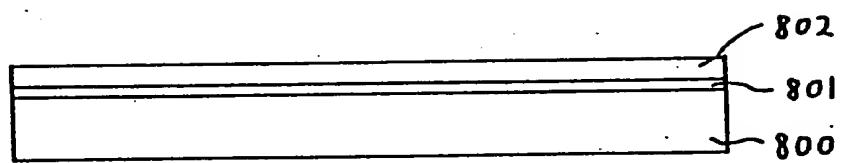
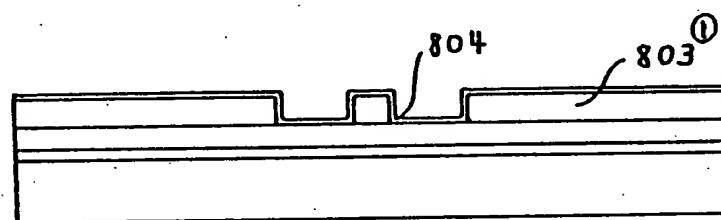


Fig. 22

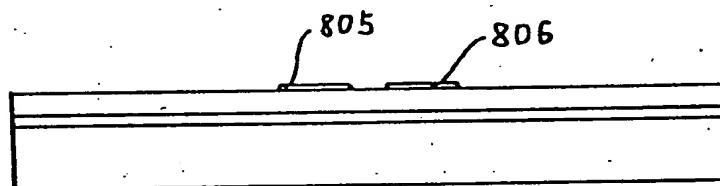
(A)



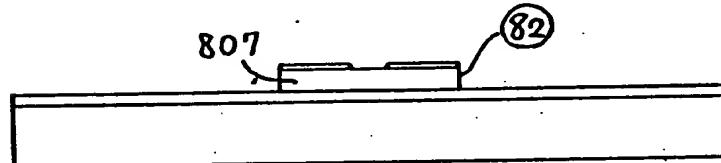
(B)



(C)



(D)



(E)

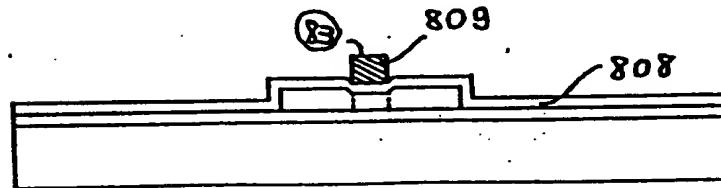


Fig. 22

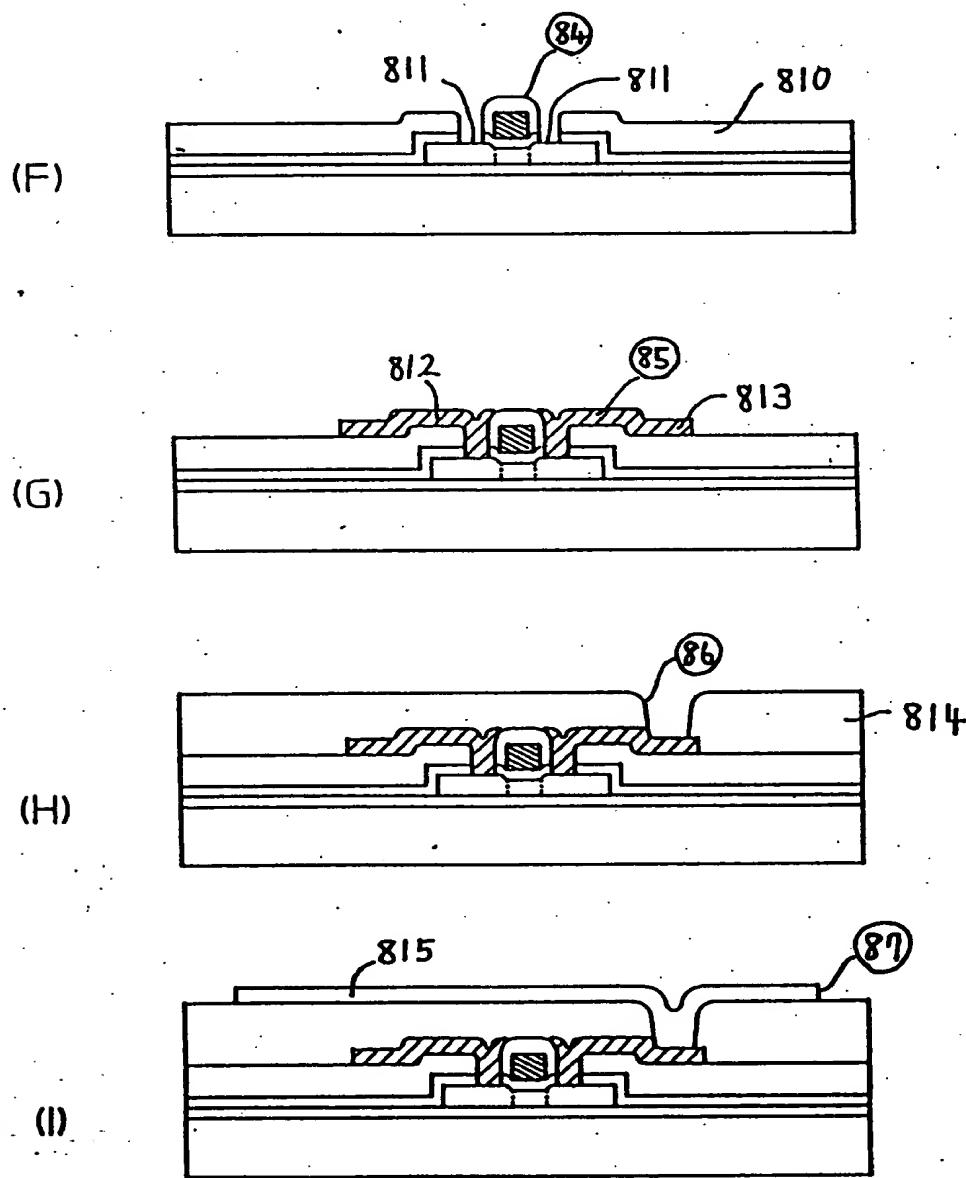


Fig. 23

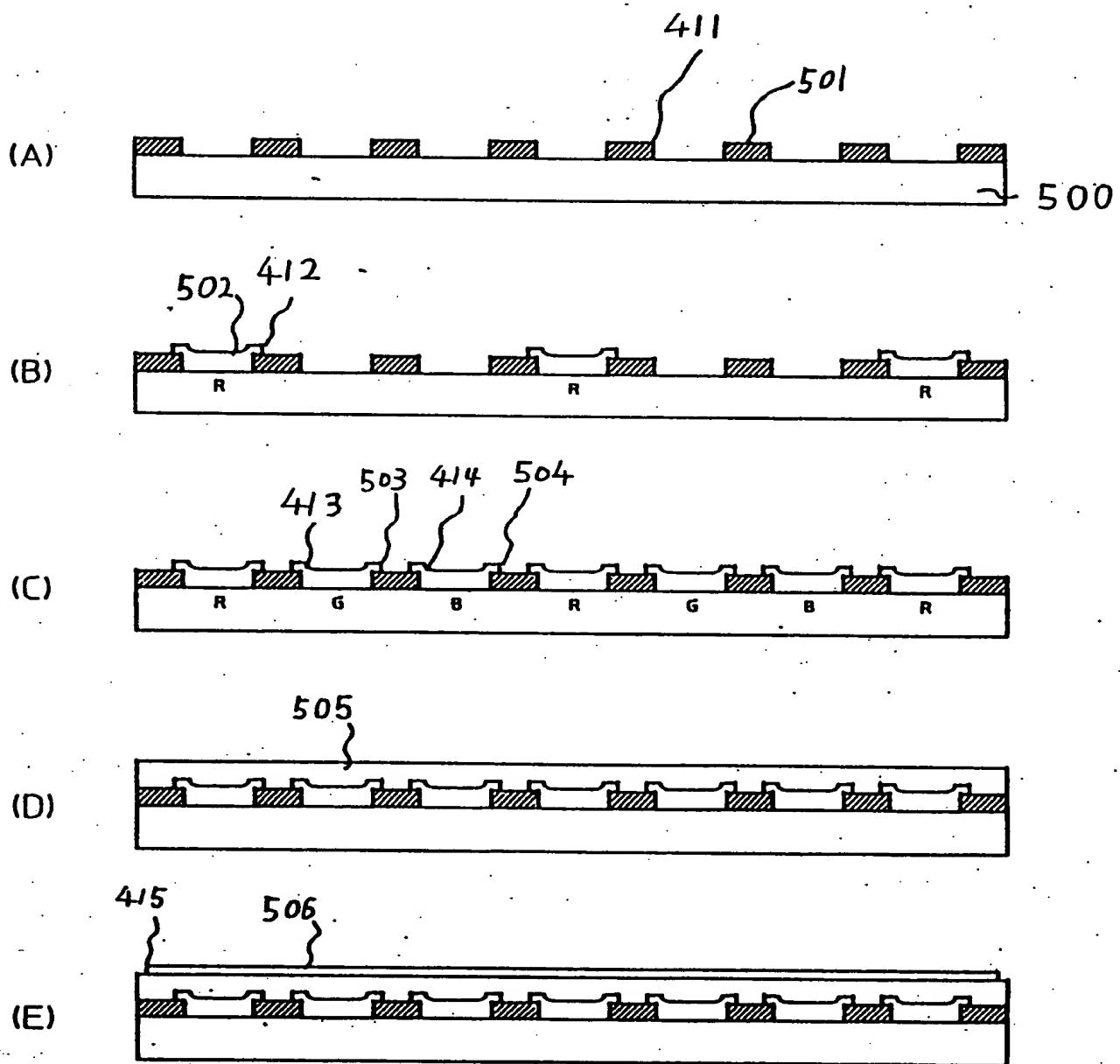


Fig. 24

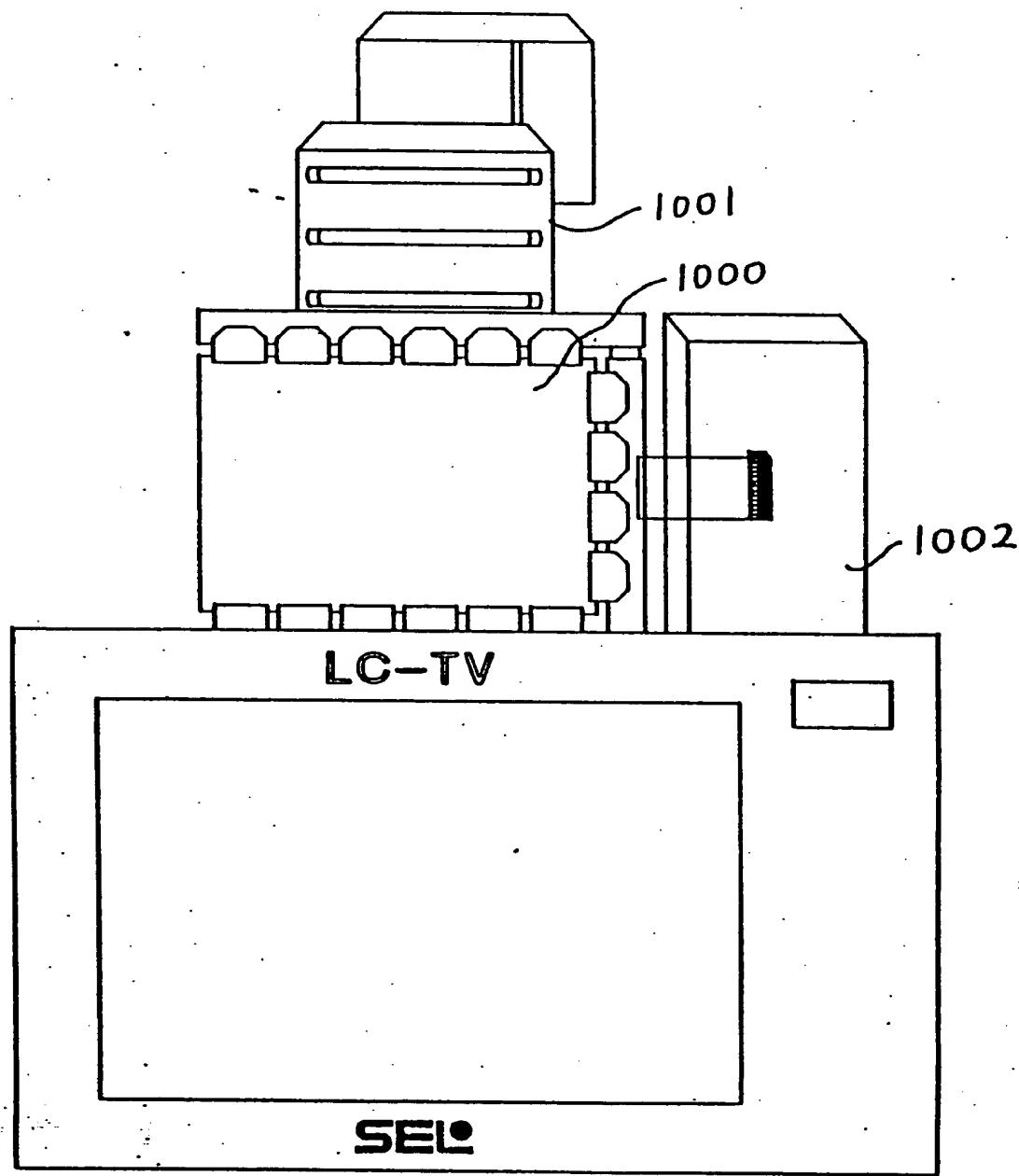


Fig. 25

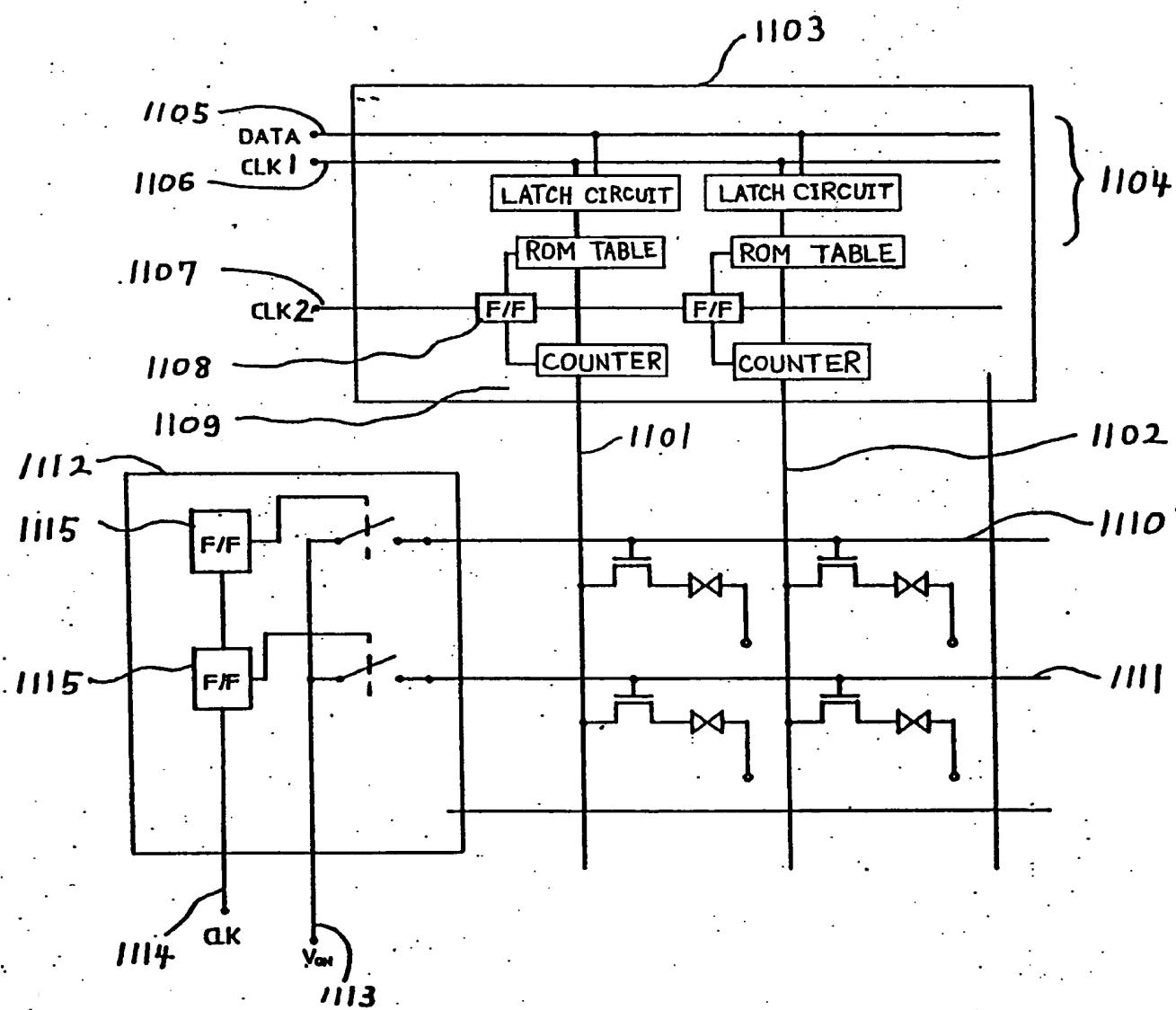


Fig. 26

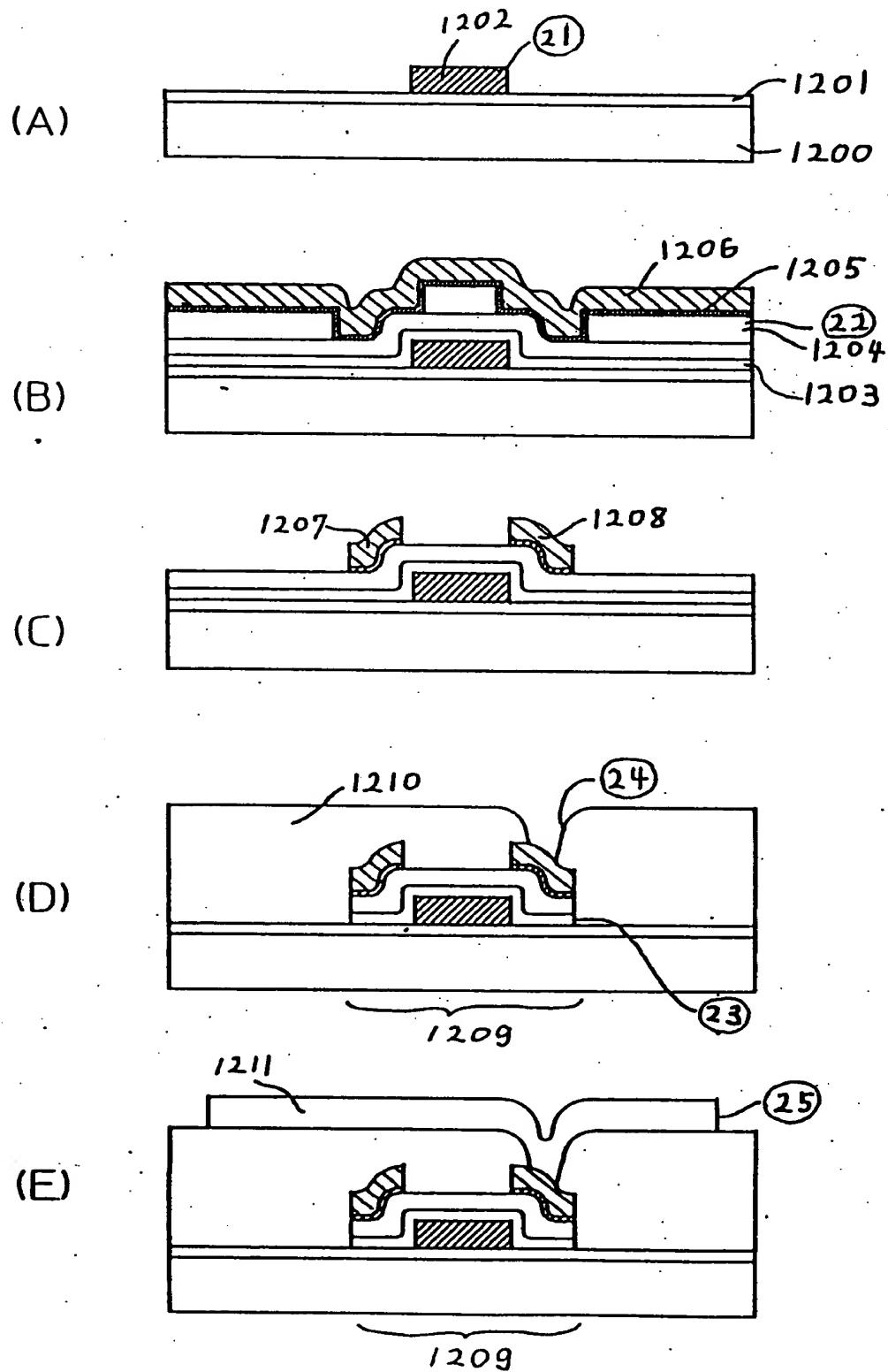


Fig. 27

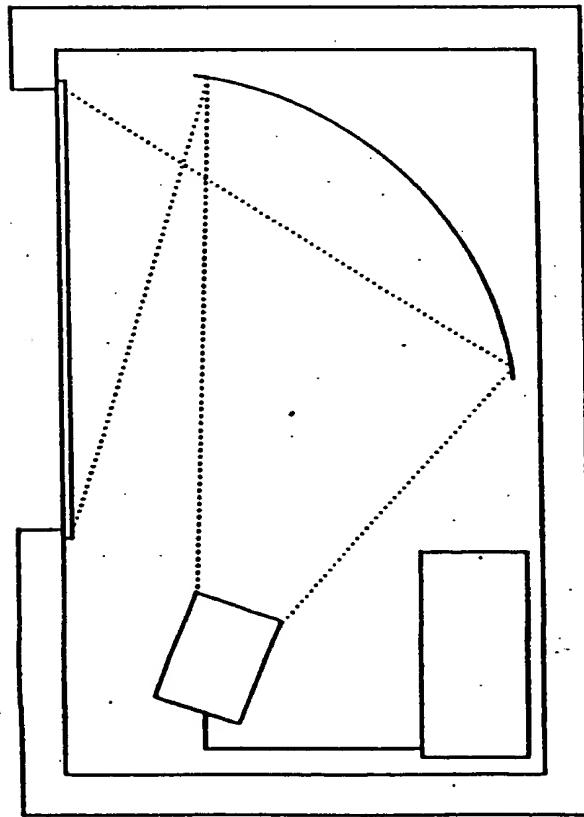
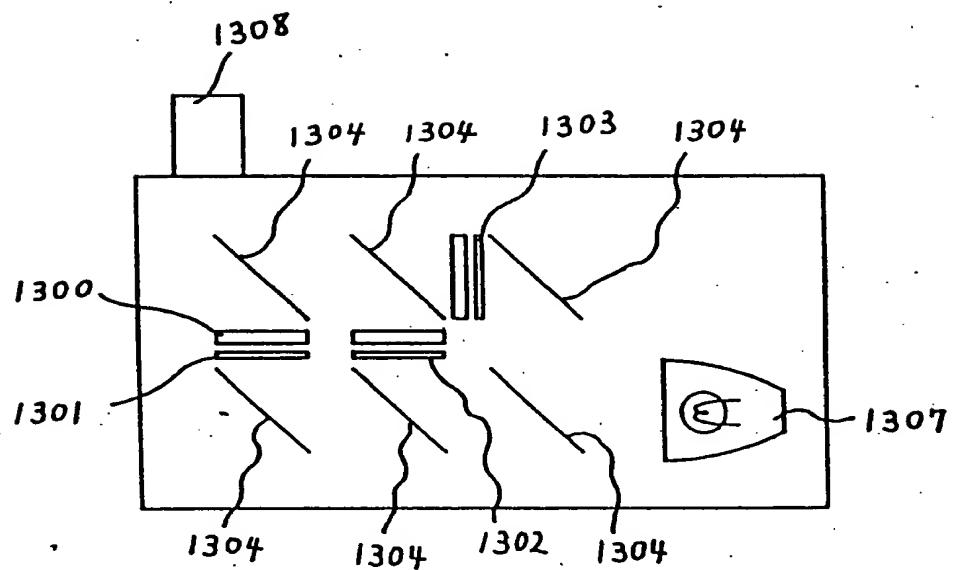


Fig. 28

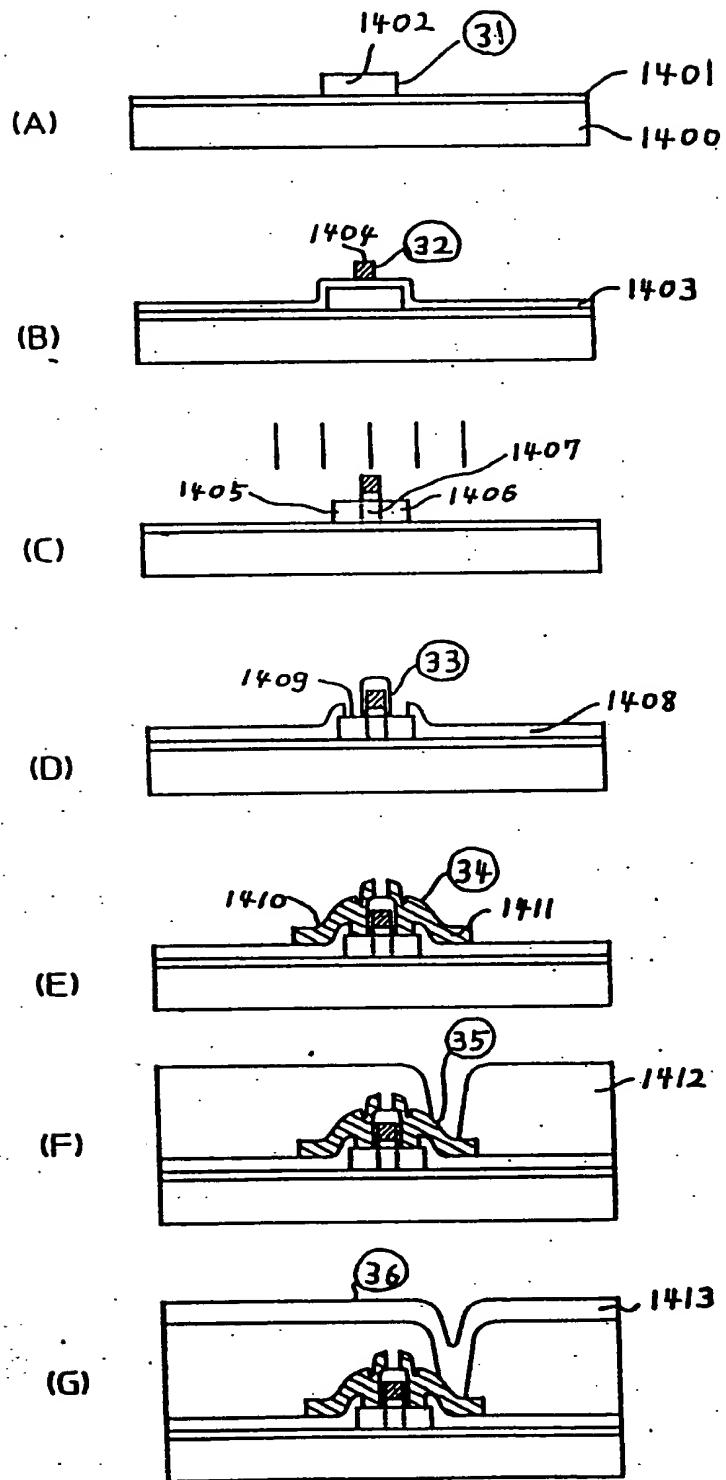


Fig. 29

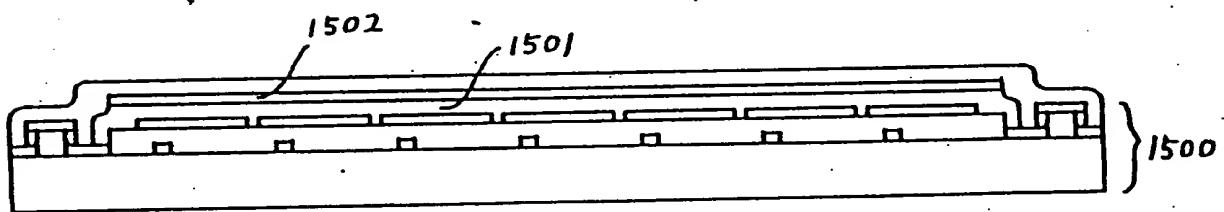
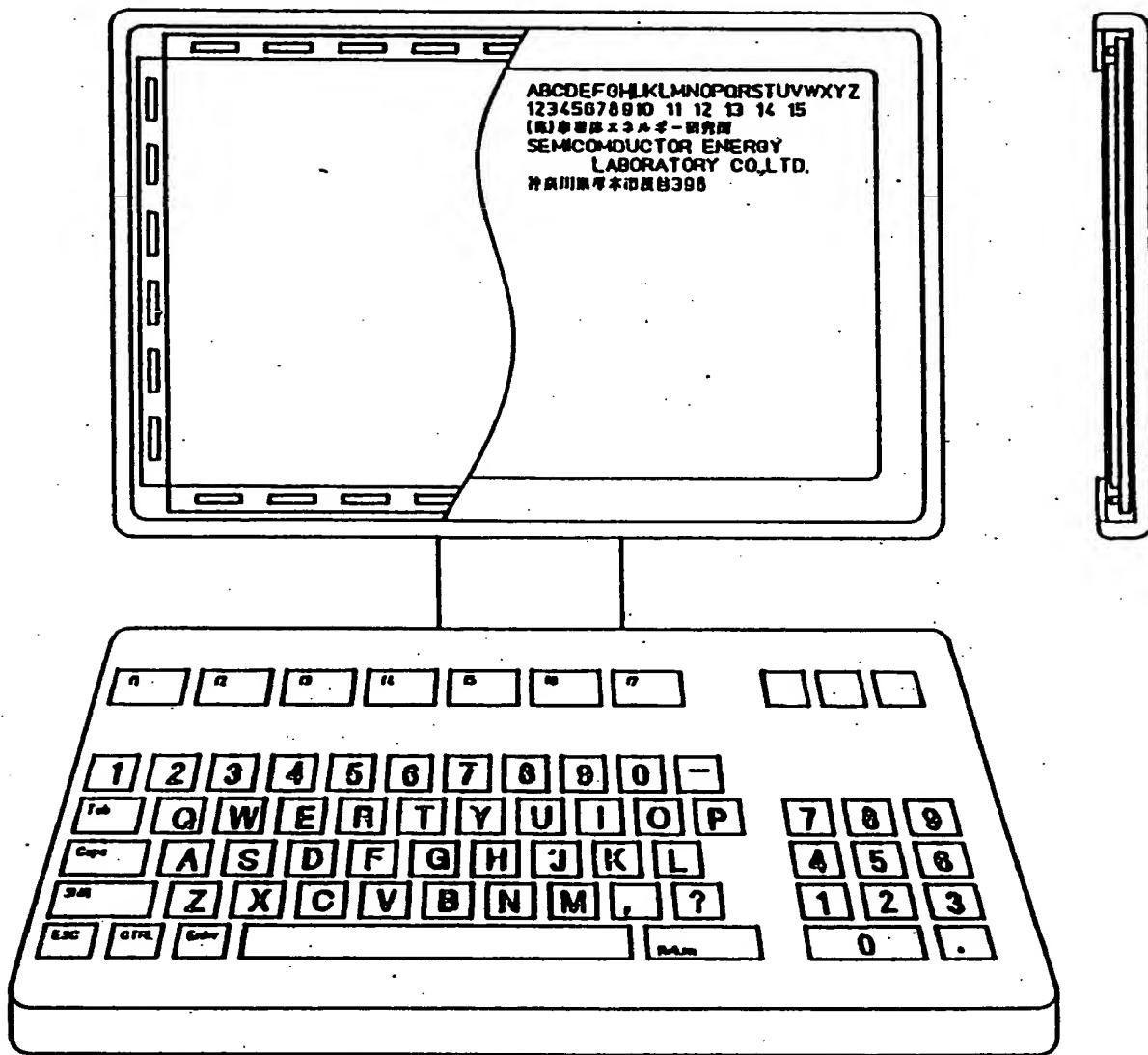


Fig. 30



I 993391

Fig. 31

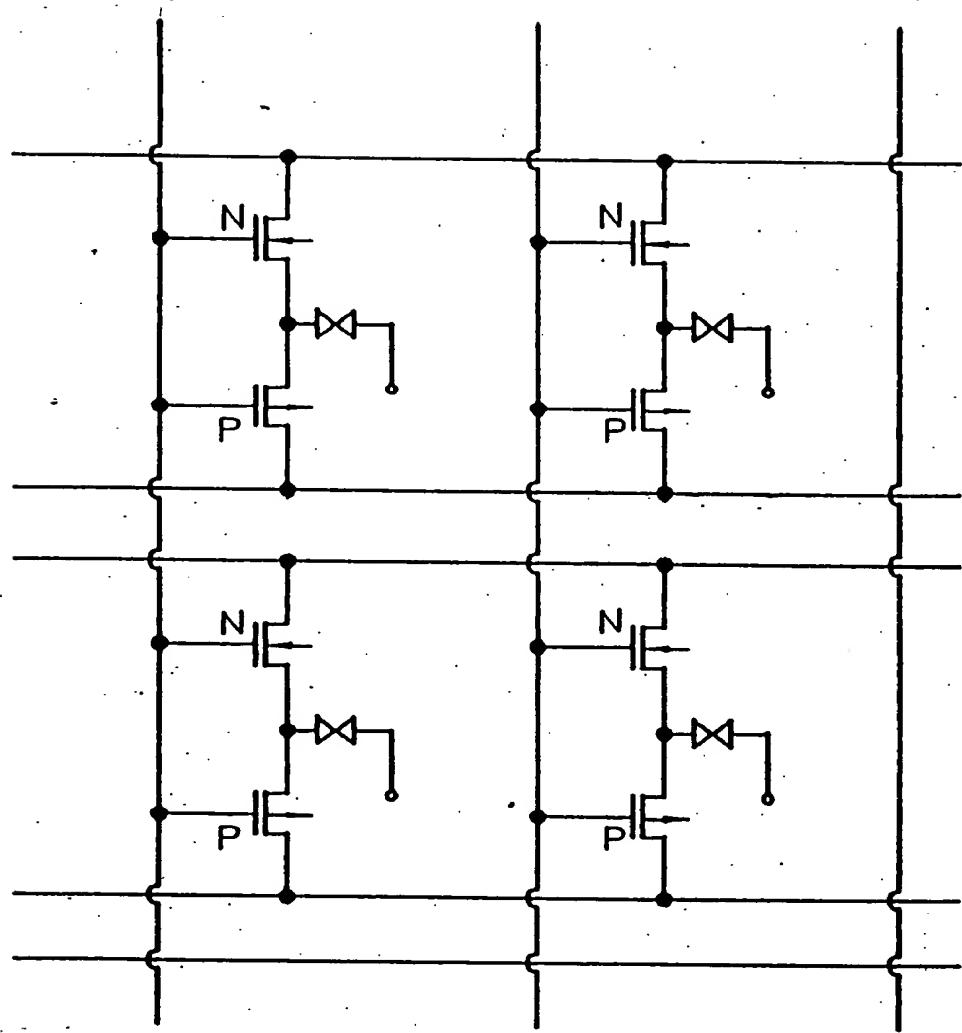


Fig. 32

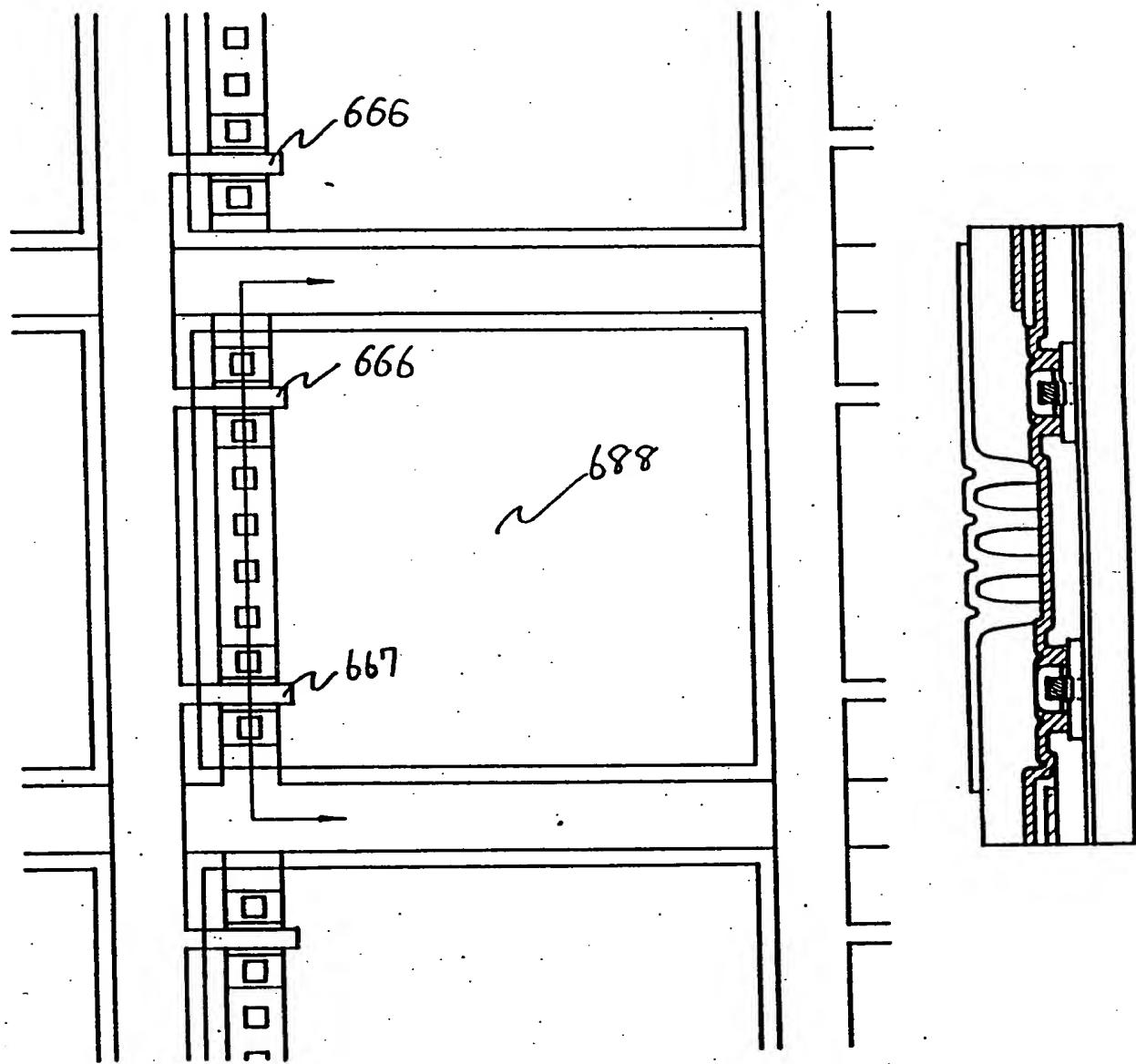
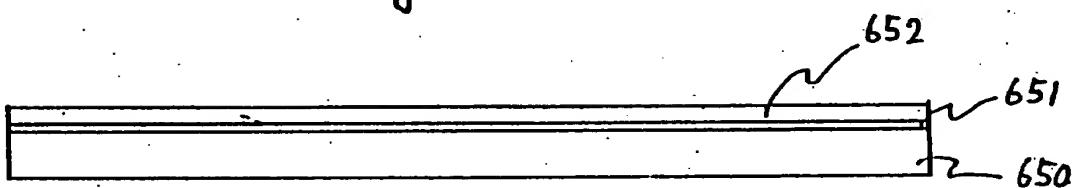
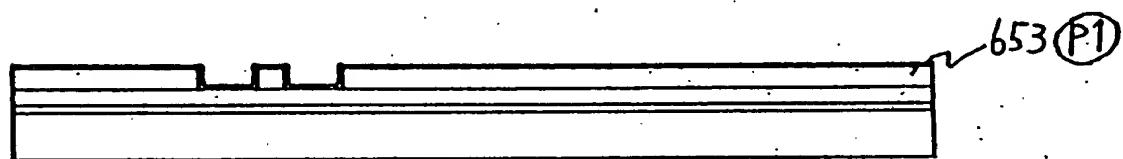


Fig. 33

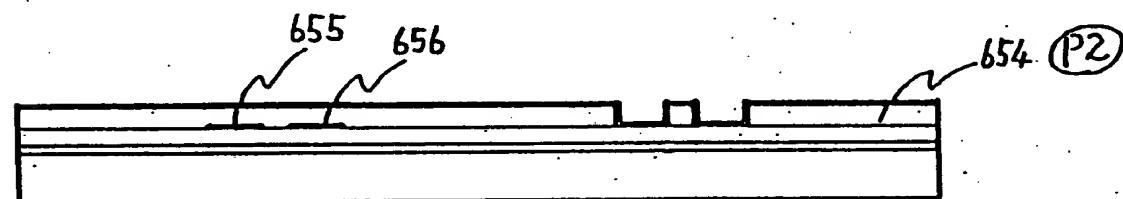
(A)



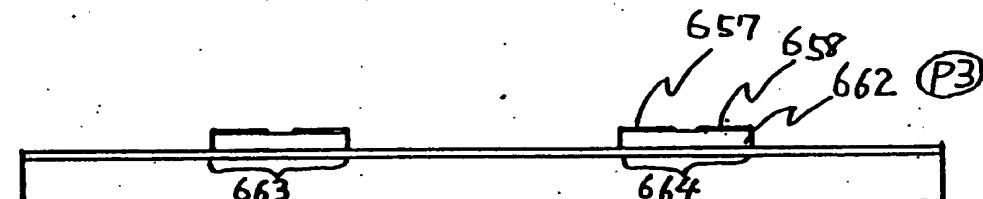
(B)



(C)



(D)



(E)

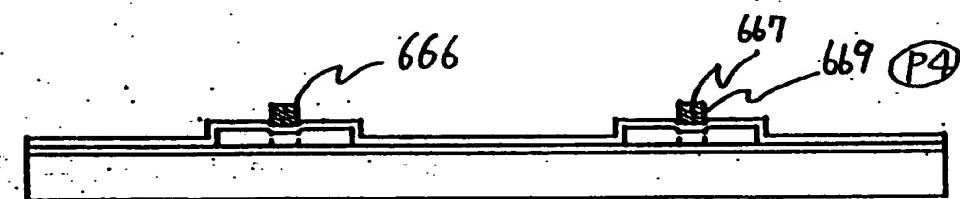


Fig. 33

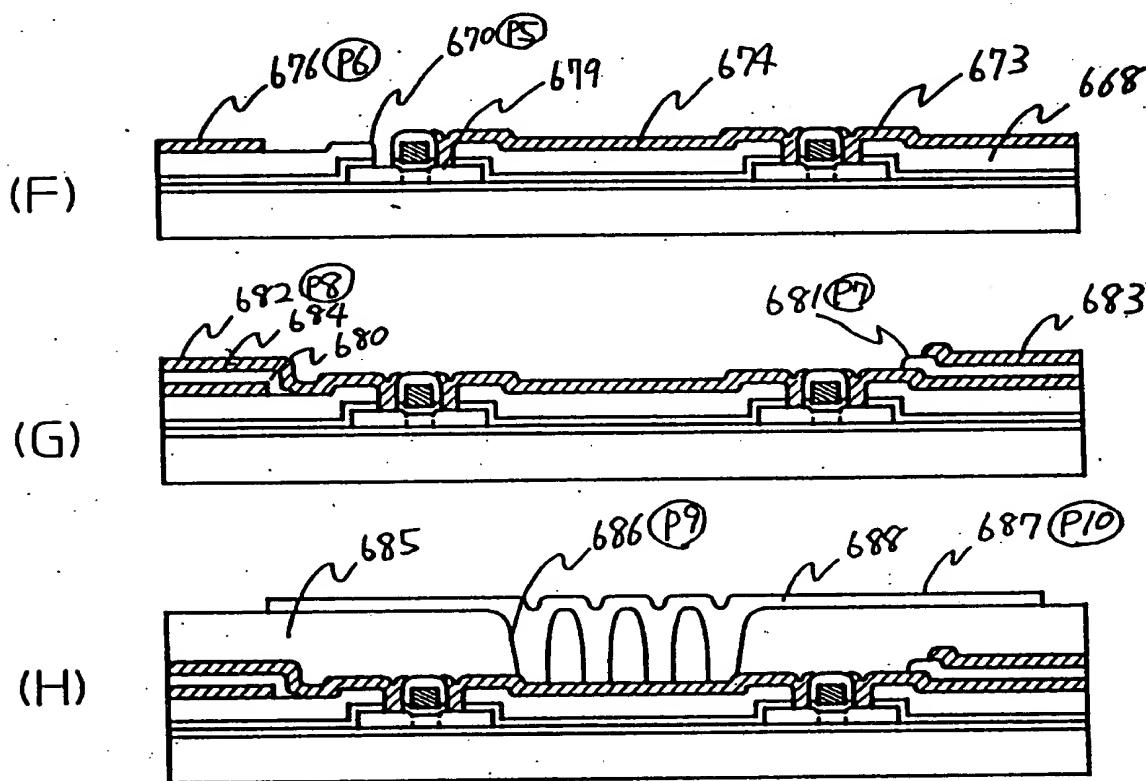


Fig. 34

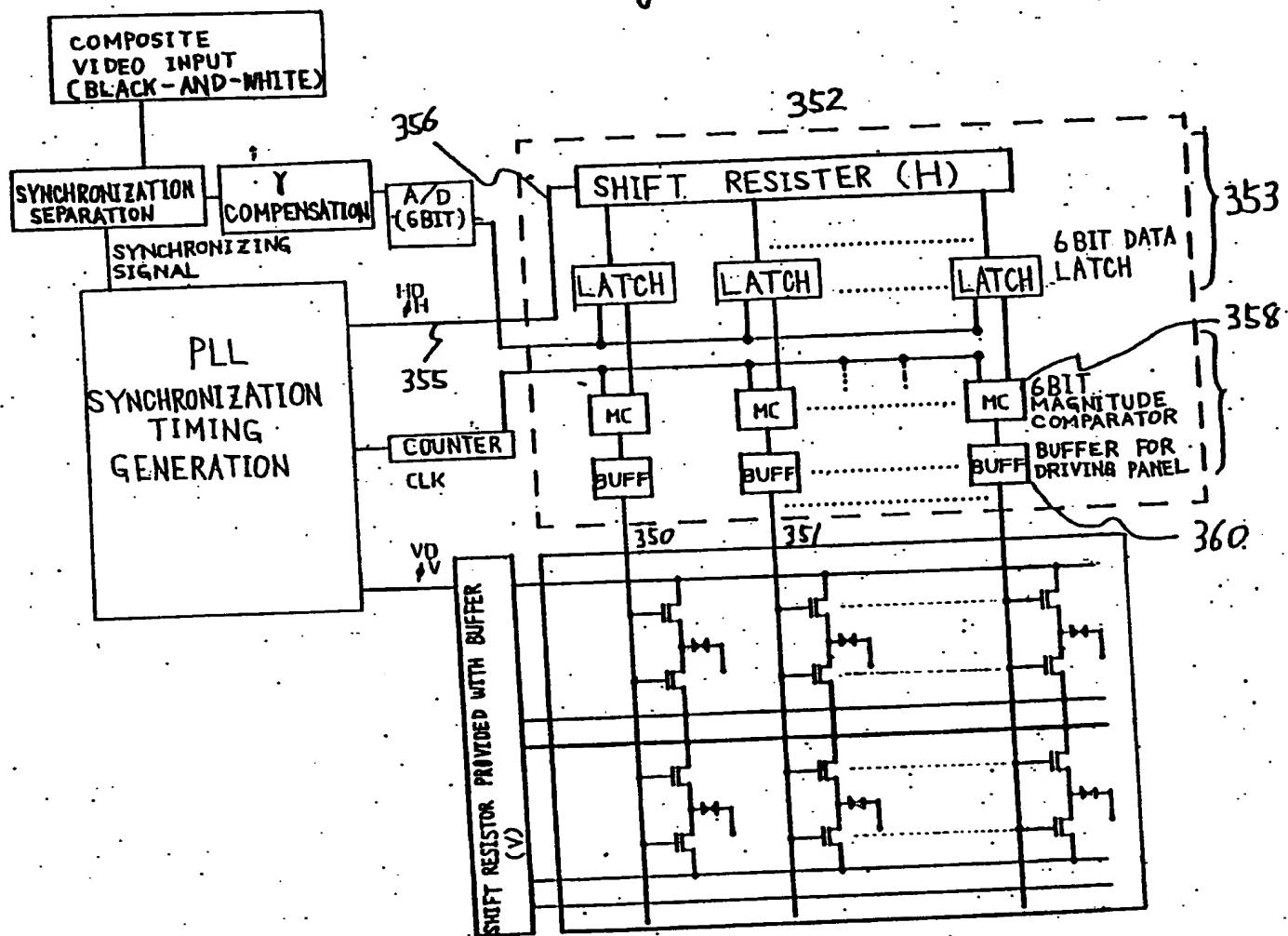


Fig. 35 (A)

$$f = 5 \text{ kHz}$$

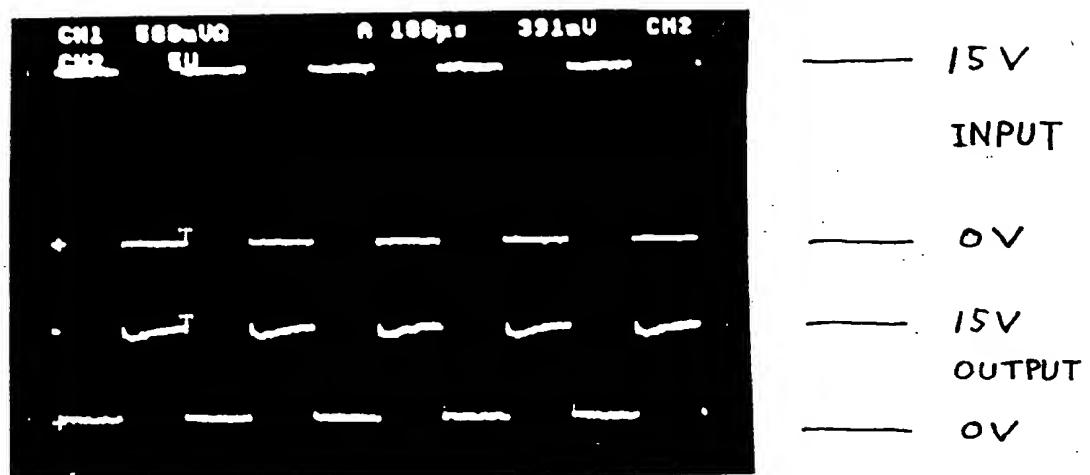


Fig. 35 (B)

$$f = 50 \text{ kHz}$$

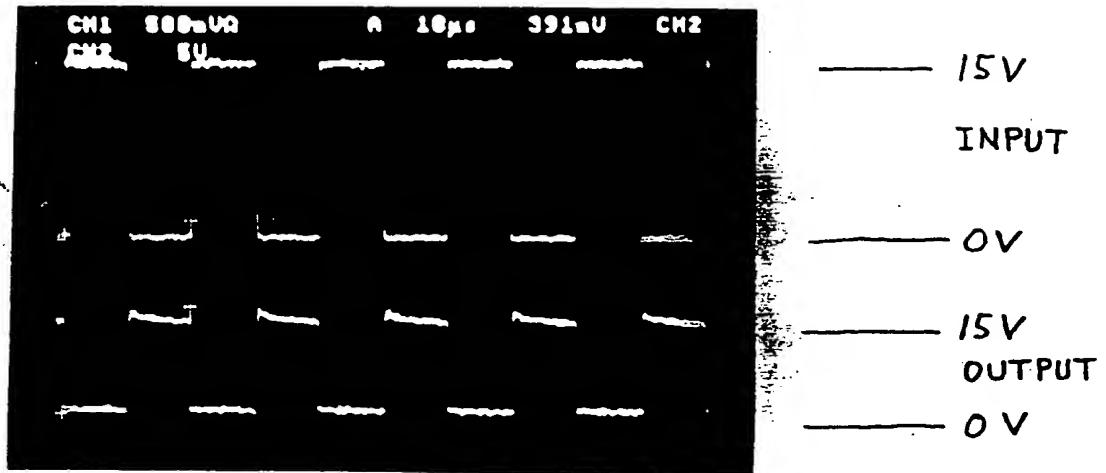


Fig. 35 (C)

$$f = 500 \text{ kHz}$$

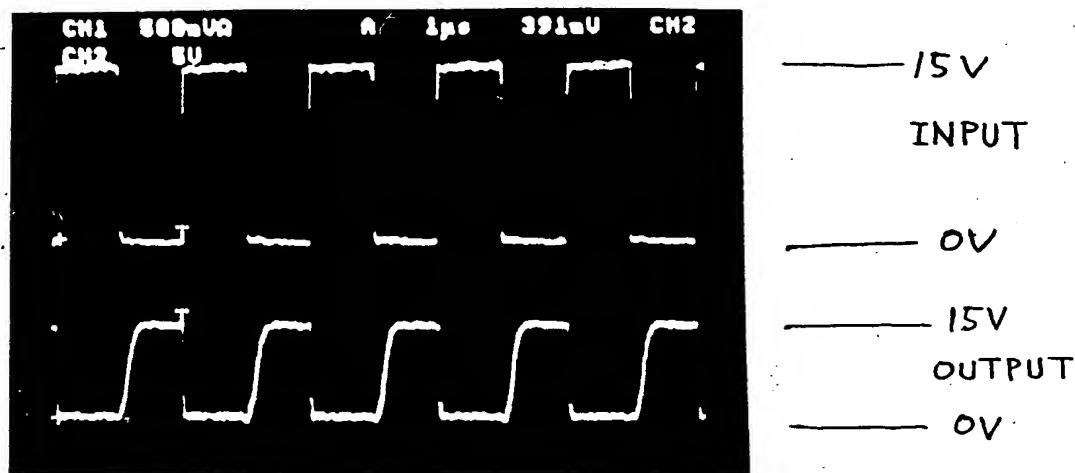


Fig. 35 (D)

$$f = 1 \text{ MHz}$$

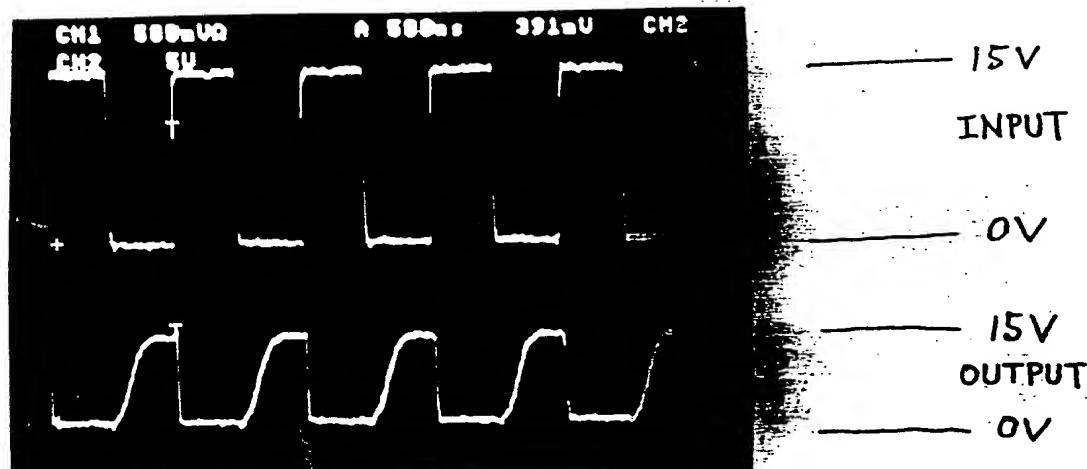
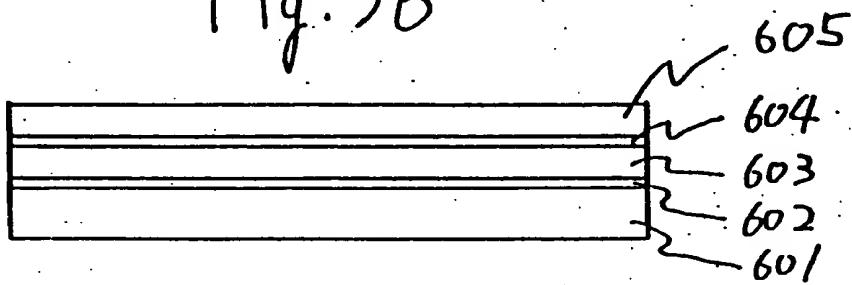
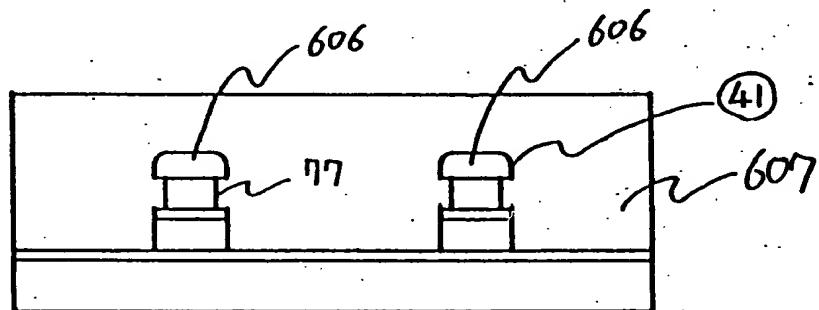


Fig. 36

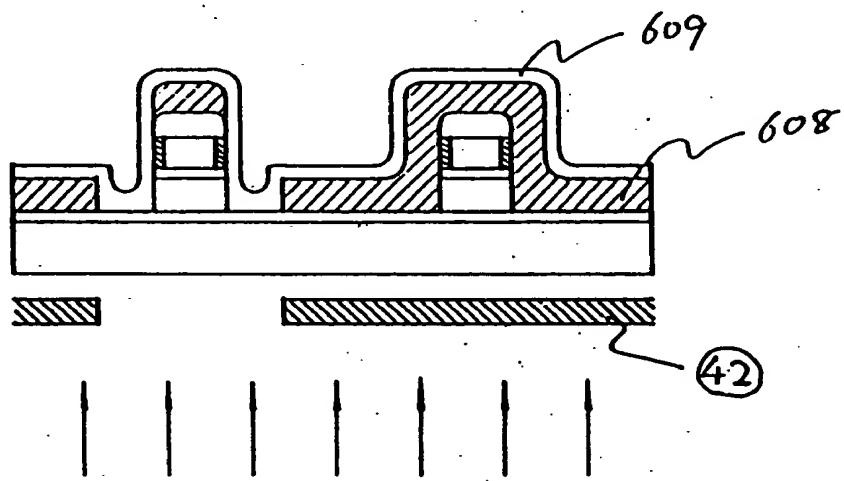
(A)



(B)



(C)



(D)

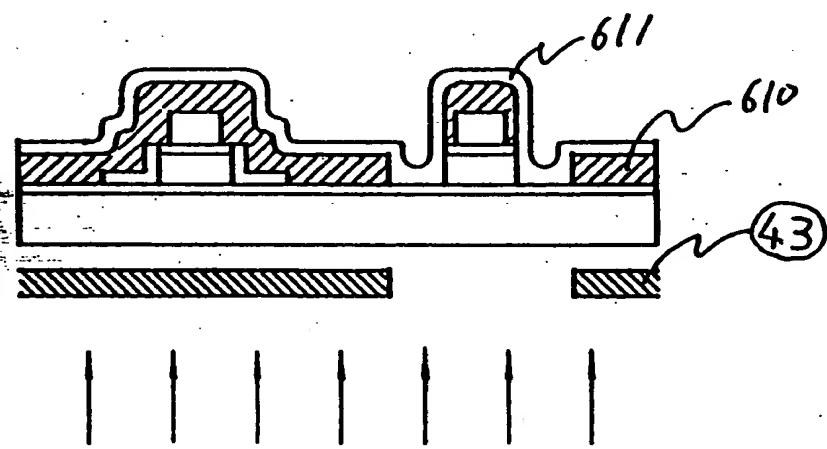
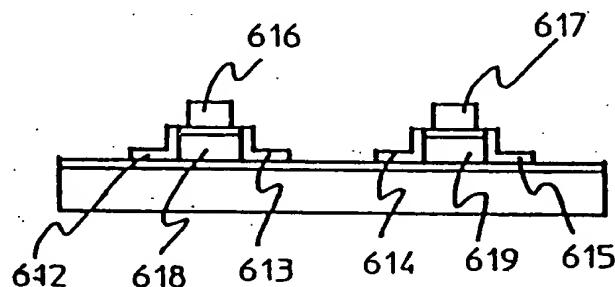
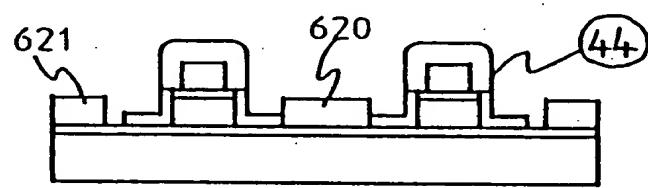


Fig. 36

(E)



(F)



(G)

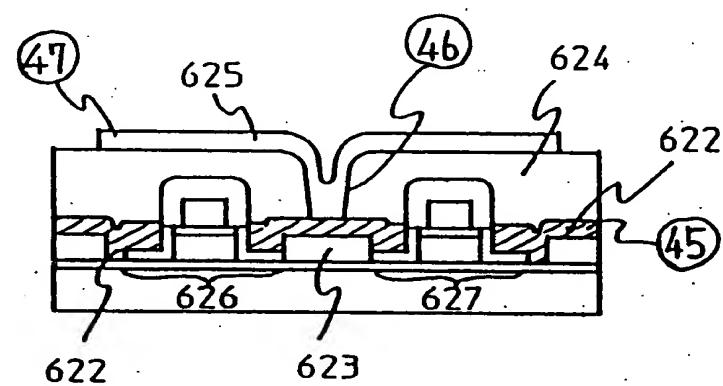


Fig. 37

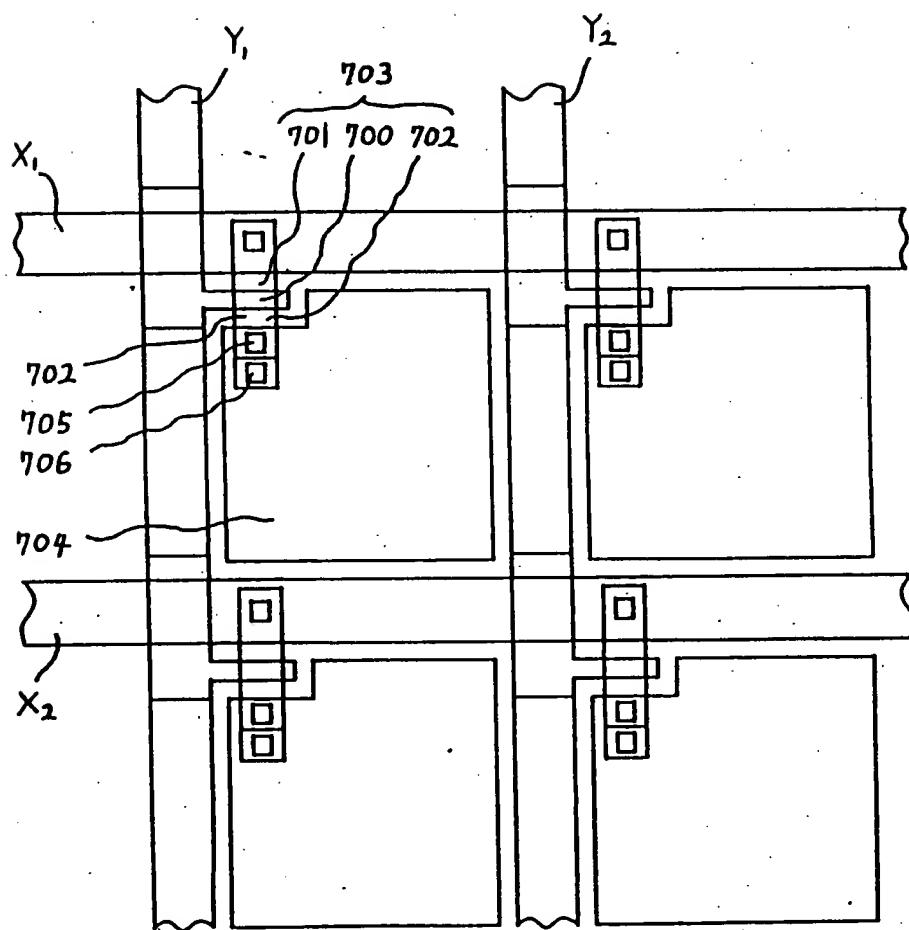


Fig. 38

